

## DESCRIPTION OF TABLES AND CHARTS.

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Table I gives, for about 137 Weather Bureau stations making two observations daily and for about 31 others making only one observation, the data ordinarily needed for climatological studies, viz, the monthly mean pressure, the monthly means and extremes of temperature, the average conditions as to moisture, cloudiness, movement of the wind, and the departures from normals in the case of pressure, temperature, and precipitation, the total depth of snowfall, and the mean wet-bulb temperatures. The altitudes of the instruments above ground are also given.

Table II gives, for about 2,800 stations occupied by voluntary and other cooperating observers, the highest maximum and the lowest minimum temperatures, the mean temperature deduced from the average of all the daily maxima and minima, or other readings, as indicated by the numeral following the name of the station, the total monthly precipitation, and the total depth in inches of any snow that may have fallen. When the spaces in the snow column are left blank it indicates that no snow has fallen, but when it is possible that there may have been snow of which no record has been made, that fact is indicated by leaders, thus (....).

Table III gives, for all stations that make observations at 8 a. m. and 8 p. m., the four component directions and the resultant directions of the wind based on these two observations only and without considering the velocity. The total movement for the whole month, as read from the dial of the Robinson anemometer, is given for each station in Table I.

Table IV gives the total number of stations in each State from which meteorological reports of any kind have been received, and the number of such stations reporting thunderstorms (T) and auroras (A) on each day of the current month.

Table V gives a record of rains whose intensity at some period of the storm's continuance equaled or exceeded the following rates:

Duration, minutes.....	5	10	15	20	25	30	35	40	45	50	60	80	100	120
Rates per hour (ins.).....	3.00	1.80	1.40	1.20	1.08	1.00	0.94	0.90	0.86	0.84	0.75	0.69	0.54	0.50

In the northern part of the United States, especially in the colder months of the year, rains of the intensities shown in the above table seldom occur. In all cases where no storm of sufficient intensity to entitle it to a place in the full table has occurred, the greatest rainfall of any single storm has been given, also the greatest hourly fall during that storm.

Table VI gives, for about 30 stations furnished by the Canadian Meteorological Service, Prof. R. F. Stupart, director, the means of pressure and temperature, total precipitation and depth of snowfall, and the respective departures from normal values, except in the case of snowfall.

Table VII gives the heights of rivers referred to zeros of gages; it is prepared by the Forecast Division.

## NOTES EXPLANATORY OF THE CHARTS.

Chart I, tracks of centers of high areas, and Chart II, tracks of centers of low areas, are prepared by the Forecast Division. The roman numerals show number and chronological order of highs (Chart I) and lows (Chart II). The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the observations at 8 a. m. and 8 p. m., seventy-fifth meridian time. Within each circle is also given (Chart I) the highest barometric reading and (Chart II) the lowest barometric reading at or near the center at that time, and in both cases as reduced to sea level and standard gravity.

Chart III.—Total precipitation. The scale of shades showing the depth of rainfall is given on the chart itself. For isolated stations the rainfall is given in inches and tenths,

when appreciable; otherwise, a "trace" is indicated by a capital T, and no rain at all by 0.0.

Chart IV.—Percentage of clear sky. The average cloudiness at each Weather Bureau station is determined by numerous personal observations during the day. The difference between the observed cloudiness and 100, it is assumed, represents the percentage of clear sky, and the values thus obtained have been used in preparing Chart IV.

Chart V.—Surface temperatures; maximum, minimum, and mean of these. Lines of equal monthly mean temperature in red; lines of equal maximum temperature in black; and lines of equal minimum temperature (dotted) also in black.

Chart VI. Isobars and isotherms at 10,000 feet. The mean monthly station pressure for each station has been reduced to the 10,000-foot plane by entering Table 53, pages 789-988, Volume II, Annual Report of the Chief of the Weather Bureau, 1900-1901, with the temperature argument,  $t$ , corresponding to  $\theta_2$ , and correcting the station pressure by the reduction  $B_2 - B$  after applying the plateau correction,  $C \cdot A \cdot H$ , and the corrections for  $e$  and  $J \cdot A$ , the argument  $t$  being the mean monthly air temperature. This reduction is fully described in the Annual Report of the Chief of the Weather Bureau for 1900-1901, Volume II, pages 772 to 786. The reduction for obtaining  $B_2$  may also be found by using gradients from the station pressure to the height of 10,000 feet, as set forth on pages 18 and 19 of the MONTHLY WEATHER REVIEW for January, 1902.

The isotherms on the 10,000-foot plane have been computed by using the gradients for temperature for each month and station as shown by Table 48, Chapter VIII, Volume II, Report of the Chief of the Weather Bureau, 1900-1901.

Chart VII.—Isobars and isotherms at 3500 feet. The pressure and temperature data entered on this chart are found by the method described for similar data on the 10,000 foot plane.

Chart VIII.—Isobars and isotherms at sea-level and resultant surface winds. The pressures have been reduced to sea level and standard gravity by the method described by Prof. Frank H. Bigelow on pages 13-16 of the REVIEW for January, 1902. The pressures have also been reduced to the mean of the twenty-four hours by the application of a suitable correction to the mean of the 8 a. m. and 8 p. m. readings, at stations taking two observations daily, and to the 8 a. m. or 8 p. m. observation, respectively, at stations taking but a single observation. The diurnal corrections so applied will be found in Table 27, Volume II, Annual Report of the Chief of Weather Bureau, 1900-1901, pp. 140-164.

The isotherms on the sea-level plane have been constructed by means of the data summarized in chapter 8 of the Annual Report of the Chief of the Weather Bureau for 1900-1901, Volume II. The correction  $t_0 - t$ , or temperature on the sea-level plane minus the station temperature, as given by Table 48 of the above report, is added to the observed surface temperature to obtain the adopted sea-level temperature.

The resultant wind directions are computed from observations at 8 a. m. and 8 p. m. daily. The resultant durations are shown by figures attached to the arrows.

IX.—Isobars at sea-level; surface isotherms; resultant winds.

Chart X.—Hydrographs for seven principal rivers of the United States, prepared by the Forecast Division.

Chart XI.—The total snowfall. This is based on the reports from regular and voluntary observers, and shows the depth of the snowfall during the month in inches. In general, the depth is shown by lines inclosing areas of equal snowfall, but in special cases figures are also given.

Chart XII.—Depth of snow on ground at end of month.

When there is no snow the last two charts are omitted.

TABLE I.—Climatological data for Weather Bureau stations, October, 1904.

Stations.	Elevation of instruments.		Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.								Precipitation, in inches.		Wind.		Maximum velocity.																				
	Barometer above sea level, feet.		Thermometers above ground.		Actual, reduced to mean of 24 hours.		Sea level, reduced to mean of 24 hrs.		Departure from normal.		Mean max. + mean min. + 2.		Departure from normal.		Mean maximum.		Mean minimum.		Greatest daily range.		Mean wet thermometer.		Mean temperature of the dew-point.		Total movement, miles.		Prevailing direction.		Miles per hour.		Clear days.						
	Anemometer above ground.		Anemometer above ground.		Mean of 24 hours.		Sea level, reduced to mean of 24 hrs.		Departure from normal.		Mean max. + mean min. + 2.		Departure from normal.		Mean maximum.		Mean minimum.		Greatest daily range.		Mean wet thermometer.		Mean temperature of the dew-point.		Total.		Departure from normal.		Days with .01, or more.		Party cloudy days.		Cloudy days.		Average cloudiness, tenths.		Total snowfall.
New England.																																					
Eastport.	76	69	82	29.94	30.03	+ .03	43.1	- 2.1	45.2	- 1.6	68	17	52	23	31	27	42	37	73	1.84	- 2.1	2.54	- 1.5	12	9,595	nw.	48	s.	21	8	12	11	5.2	T.			
Portland, Me.	103	81	117	29.94	30.06	+ .02	46.4	- 2.7	54	- 2.5	16	31	39	31	42	37	72	1.16	- 2.7	8	7,447	nw.	51	s.	21	14	15	9	4.8								
Concord.	298	70	79	29.74	30.07	+ .02	45.8	- 3.7	72	- 17	56	22	28	36	40	... ..	... ..	75	1.60	- 1.9	12	4,248	nw.	30	se.	21	15	8	5.5	0.5							
Northfield.	876	16	60	29.12	30.08	+ .04	41.8	- 1.5	71	10	52	15	31	32	41	38	34	75	2.29	- 0.0	11	6,570	s.	36	se.	21	5	7	19	7.1	T.						
Boston.	125	115	181	29.94	30.08	+ .03	50.6	- 1.3	74	17	59	27	31	42	30	45	39	68	2.13	- 2.2	8	8,089	w.	50	a.	21	12	8	11	5.2	T.						
Nantucket.	12	43	82	30.05	30.06	+ .01	52.2	- 0.4	68	11	57	36	31	47	18	45	45	75	1.01	- 3.0	8	11,700	n.	48	ne.	12	13	10	12	4.2							
Block Island.	26	11	46	30.04	30.07	+ .02	51.5	- 2.1	67	18	57	30	31	46	20	47	42	70	1.86	- 2.6	7	14,375	sw.	57	ne.	12	15	4	12	4.5							
Narragansett.	9	38	—	—	—	—	49.2	- 3.1	70	18	58	25	31	40	31	—	—	75	1.75	- 3.0	7	—	w.	62	se.	21	19	18	4	9							
New Haven.	106	116	154	29.98	30.09	+ .03	50.3	- 2.1	78	18	60	31	41	34	45	39	68	2.21	- 1.8	6	7,071	n.	62	se.	21	19	7	6	3.1								
Mid. Atlantic States.							63.8	- 1.7	—	—	—	—	—	—	—	—	—	70	2.34	- 0.9	—	—	—	—	—	—	—	—	3.5								
Albany.	97	102	115	29.98	30.09	+ .03	48.6	- 2.0	73	18	57	24	31	40	35	48	39	75	3.09	- 0.1	9	5,697	s.	35	se.	21	13	7	11	5.1	T.						
Binghamton.	875	79	90	29.14	30.09	+ .03	47.1	- 1.0	80	10	57	19	31	37	41	—	—	75	3.31	+ 0.4	10	4,451	w.	28	nw.	1	13	8	10	5.4							
New York.	314	108	350	29.76	30.10	+ .04	53.3	- 1.7	78	18	60	33	31	46	27	47	42	70	3.21	-	5	9,177	s.	56	se.	21	19	6	6	3.5							
Harrisburg.	374	94	104	29.72	30.13	+ .05	51.6	- 0.9	84	10	61	29	31	42	33	45	40	69	2.78	- 0.3	5	4,706	nw.	36	nw.	1	19	6	6	3.6							
Philadelphia.	117	116	184	29.99	30.12	+ .05	54.4	- 1.4	84	11	63	32	31	46	30	47	41	64	4.03	+ 1.1	3	7,513	n.	35	nw.	21	19	6	6	3.4							
Scranton.	905	111	119	29.23	30.11	+ .04	48.9	- 1.7	81	10	59	23	31	38	44	40	75	3.80	-	8	5,385	sw.	36	n.	1	9	13	9	5.5								
Atlantic City.	52	39	48	30.05	30.11	+ .04	54.0	- 2.3	84	11	62	30	25	46	27	49	44	73	1.50	- 1.8	5	6,432	n.	49	s.	21	19	6	6	3.2							
Cape May.	17	48	52	30.11	30.13	+ .06	54.6	- 4.3	80	11	62	30	31	48	22	49	49	75	1.73	- 1.8	4	6,591	n.	36	se.	21	20	7	4	3.1							
Baltimore.	123	69	117	29.98	30.11	+ .03	54.8	- 2.1	86	10	64	31	31	45	35	48	42	67	3.73	+ 0.8	2	5,167	n.	30	nw.	1	18	5	8	3.6							
Washington.	112	59	76	30.00	30.12	+ .04	54.1	- 2.1	86	10	65	28	31	43	40	48	44	76	2.35	- 0.7	3	4,274	se.	32	w.	21	21	6	4	2.8							
Cape Henry.	18	11	58	30.09	30.11	+ .04	59.8	- 2.0	87	11	66	43	31	54	25	—	—	75	1.99	- 1.8	3	11,349	n.	48	n.	6	23	4	4	3.1							
Lynchburg.	681	83	88	29.98	30.14	+ .05	56.2	- 0.9	88	10	70	28	24	43	46	47	43	71	0.40	- 2.9	1	2,312	n.	23	nw.	21	21	8	2	2.9							
Norfolk.	91	102	111	30.02	30.12	+ .05	59.6	- 1.0	86	11	67	43	24	52	31	53	49	75	2.26	- 1.6	4	6,202	ne.	36	nw.	21	23	3	5	2.6							
Richmond.	144	82	90	29.98	30.13	+ .05	57.7	- 1.6	80	10	66	24	37	45	42	36	68	0.02	-	2.7	3	2,158	w.	21	w.	22	23	3	5	2.3	T.						
Wytheville.	2,293	40	47	27.73	30.15	+ .06	51.8	- 1.6	80	10	66	24	37	45	42	36	68	0.02	-	2.7	3	2,158	w.	21	w.	22	23	3	5	2.3							
S. Atlantic States.							63.1	0.0	—	—	—	—	—	—	—	—	—	71	2.47	- 1.3	—	—	—	—	—	—	—	—	3.1								
Asheville.	2,255	53	75	27.78	30.12	+ .03	54.4	- 0.2	82	10	68	22	24	40	41	46	40	68	0.02	-	2.8	1	4,259	se.	22	e.	7	20	9	2	2.5						
Charlotte.	773	68	76	29.29	30.13	+ .05	60.0	- 0.3	86	11	70	35	24	50	33	50	43	62	0.91	-	2.8	5	4,120	n.	18	ne.	6	22	6	3	2.5						
Hatteras.	11	12	47	30.07	30.08	+ .02	64.6	+ 0.1	81	12	70	50	31	59	18	58	55	75	0.54	-	5.6	4	11,403	n.	52	s.	21	24	8	1	2.4						
Raleigh.	376	71	79	29.72	30.12	+ .05	58.6	+ 0.6	87	11	70	36	25	48	35	50	45	72	2.70	-	0.7	4	2,250	n.	23	n.	6	19	8	4	3.1						
Wilmington.	78	82	90	29.99	30.07	+ .01	62.2	- 1.3	85	12	72	39	24	52	26	55	52	79	1.26	- 1.6	6	5,689	n.	32	nw.	21	17	11	3	2.9							
Charleston.	48	14	92	30.02	30.07	+ .01	66.8	- 0.1	86	12	74	47	24	60	20	59	55	72	4.75	+ 0.6	6	9,449	n.	33	e.	17	12	8	3	3.9							
Columbia, S. C.	351	167	175	29.71	30.10	+ .03	62.8	- 0.8	88	11	73	39	24	53	35	57	51	75	0.23	-	0.1	4	8,474	n.	31	n.	6	19	9	4	3.1						
Augusta.	180	89	97	29.89	30.08	+ .01	64.3	+ 0.6	89	11	76	37	23	53	32	55	49	75	0.26	-	2.2	3	4,775	n.	24	ne.	6	23	5	3	1.8						
Savannah.	65	81	89	29.99	30.06	+ .01	66.9	+ 0.5	89	2	75	45	24	59	55	75	0.23	-	3.4	4	6,310	n.	28	ne.	18	18	7	6	3.5								
Jacksonville.	43	101	129	29.93	30.04	+ .04	70.3	- 2.9	82	7	24	64	24	66	63	58	66	72	1.24	- 1.6	1	8,202	n.	37	sw.	3	10	8	13	5.5							
Florida Peninsula.							76.8	+ 1.1	—	—	—	—	—	—	—	—	—	71	2.47	- 1.7	—	—	—	—	—	—	—	4.9									
Jupiter.	28	10	86	29.86	30.07	+ .08	77.0	+ 1.6	94	1	80	43	29	57	35	57	51	63	0.13	-	3.0	2	4,485	n.	20	nw.	20	23	6	2	2.6						
Key West.	22	10	5																																		

TABLE I.—Climatological data for Weather Bureau stations, October, 1904—Continued.

Stations.	Elevation of instruments.		Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.						Precipitation, in inches.		Wind.		Maximum velocity.										
	Barometer above sea level, feet.	Thermometers above ground.	Actual, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hrs.	Departure from normal.	Mean max. + mean min. + 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Total.	Departure from normal.	Days with .01, or more.	Total movement, miles.	Precipitation direction.	Miles per hour.	Clear days.		
																					Date.	Cloudy days.			
																						Average cloudiness, tenths.	Total snowfall.		
<i>North Dakota.</i>																									
Moorhead.....	935	54	60	29.00	30.03	+ .03	47.4	+ 4.0	72	1	56	24	25	38	42	40	85	1.17	+ 0.2	8	6,788	se.	32	n.w.	
Bismarck.....	1,674	16	29	28.22	30.02	+ .03	49.0	+ 4.1	86	1	61	25	27	37	41	41	36	4	+ 0.1	5	7,765	se.	39	n.w.	
Williston.....	1,875	14	44	28.00	30.01	+ .03	45.9	+ 2.7	81	1	60	15	26	32	48	38	32	69	0.23	+ 0.8	5	6,471	n.w.	23	17
<i>Upper Miss. Valley.</i>																									
Minneapolis.....	99	208	29.11	30.02	+ .01	47.2	+ 2.6	76	1	56	29	27	42	26	44	41	76	4.94	+ 3.1	14	10,407	se.	42	n.w.	
St. Paul.....	837	171	179	29.11	30.02	+ .01	49.7	+ 2.1	75	1	56	29	27	43	44	41	76	5.05	+ 3.2	11	8,340	se.	21	9	
La Crosse.....	714	71	87	29.27	30.05	+ .03	51.6	+ 2.1	79	9	60	27	27	44	40	41	36	2.17	+ 0.1	9	5,525	s.	29	n.	
Davenport.....	606	71	79	29.40	30.05	+ .01	54.4	+ 2.3	81	9	64	30	27	45	33	49	46	80	1.15	+ 1.5	5	5,488	sw.	34	n.w.
Des Moines.....	861	84	99	29.15	30.08	+ .05	54.6	+ 2.4	86	4	65	27	44	43	44	44	74	1.50	+ 1.5	10	6,362	s.	34	n.w.	
Dubuque.....	698	100	117	29.31	30.07	+ .03	52.8	+ 2.2	80	9	61	29	27	44	32	46	41	72	3.18	+ 0.5	10	4,702	s.	29	n.w.
Keokuk.....	614	63	78	29.40	30.06	+ .01	56.4	+ 2.3	82	9	66	32	27	47	29	43	45	75	0.30	+ 1.5	2	5,936	sw.	40	n.w.
Cairo.....	356	87	93	29.73	30.12	+ .05	59.0	+ 0.3	83	10	69	30	27	49	36	42	49	79	1.20	+ 1.6	5	5,287	ne.	28	n.
Springfield, Ill.....	644	82	93	29.41	30.10	+ .05	55.6	+ 0.6	84	10	66	30	27	45	33	47	42	69	0.11	+ 2.6	3	6,656	s.	40	w.
Hannibal.....	534	75	109	29.51	30.08	+ .03	56.7	+ 1.7	84	10	67	28	26	46	37	44	41	61	+ 0.8	4	6,666	sw.	33	n.w.	
St. Louis.....	567	208	217	29.48	30.09	+ .03	58.7	+ 1.2	84	10	68	36	26	50	26	52	47	70	0.50	+ 2.4	3	7,186	s.	43	n.w.
<i>Missouri Valley.</i>																									
Columbia, Mo.....	784	11	84	29.25	30.08	+ .03	57.1	+ 0.5	85	10	69	28	23	46	38	40	36	67	1.11	+ 0.9	4	5,694	s.	39	n.w.
Kansas City.....	963	78	95	29.08	30.12	+ .08	59.4	+ 3.7	84	4	70	34	27	49	27	51	45	69	1.00	+ 2.4	3	6,117	se.	31	n.w.
Springfield, Mo.....	1,324	98	104	28.70	30.10	+ .05	59.0	+ 3.0	85	10	69	33	29	49	30	43	45	65	0.97	+ 2.1	6	7,705	se.	37	n.w.
Topeka.....	85	89	89	28.77	30.03	.00	59.0	+ 3.3	86	4	71	30	25	47	39	47	50	60	0.22	+ 1.8	6	6,631	s.	37	n.w.
Lincoln.....	1,189	75	84	28.77	30.03	.00	56.6	+ 2.5	87	4	67	31	27	46	39	44	44	70	1.33	+ 0.7	7	7,990	s.	50	n.w.
Omaha.....	1,105	115	121	28.86	30.05	+ .02	56.6	+ 3.7	87	4	66	32	27	47	32	49	44	68	1.40	+ 1.1	9	6,570	s.	40	n.
Valentine.....	2,598	47	54	27.32	30.04	+ .03	52.7	+ 3.5	86	3	67	25	29	47	43	47	43	66	0.54	+ 0.4	9	9,050	n.w.	16	17
Sioux City.....	1,135	96	164	28.81	30.08	+ .01	53.5	+ 2.5	84	3	64	30	28	44	36	44	44	70	2.39	+ 0.7	6	10,545	n.w.	52	n.w.
Pierre.....	1,572	43	50	28.35	30.03	+ .02	55.1	+ 5.7	84	15	68	28	25	42	46	44	44	62	0.16	+ 0.5	1	3,271	n.w.	36	s.w.
Huron.....	1,306	56	67	28.63	30.04	+ .03	51.8	+ 5.3	86	7	64	24	27	39	44	45	43	69	1.71	+ 0.4	3	10,303	se.	42	s.e.
Yankton.....	1,233	42	49	28.69	30.01	.00	54.1	+ 4.4	90	3	66	24	27	43	47	47	47	70	3.58	+ 2.1	7	6,322	se.	34	n.w.
<i>Northern Slope.</i>																									
Havre.....	2,505	11	44	27.37	30.02	+ .04	48.2	+ 4.2	82	1	64	22	28	33	48	40	36	71	0.51	+ 0.1	2	5,370	w.	34	s.w.
Miles City.....	2,371	42	50	27.47	30.00	.00	51.4	+ 5.3	82	4	66	25	37	48	44	41	71	0.00	+ 0.9	4	4,223	n.w.	36	n.w.	
Helena.....	4,110	8	56	25.57	30.08	+ .05	48.6	+ 3.4	76	1	60	25	18	38	32	39	31	57	0.27	+ 0.6	3	5,190	w.	36	w.
Kalispell.....	2,965	45	51	26.98	30.06	+ .05	45.3	.....	78	2	57	24	27	34	36	39	34	71	0.43	+ 0.5	5	3,602	w.	22	s.w.
Rapid City.....	3,234	46	50	26.62	30.00	-.01	52.0	+ 3.0	82	3	64	23	25	40	37	45	55	60	1.18	+ 0.5	6	6,299	n.w.	34	w.
Cheyenne.....	6,088	66	64	24.08	30.09	+ .08	46.8	+ 1.9	74	4	60	19	25	34	38	36	26	53	0.57	+ 0.2	3	7,580	n.w.	16	18
Lander.....	5,372	26	36	24.72	30.12	+ .08	46.2	+ 2.7	74	4	62	14	18	31	41	38	32	71	1.81	+ 0.8	3	2,100	ne.	24	s.w.
Yellowstone Park.....	6,200	11	47	23.96	30.10	+ .08	44.0	.....	68	1	56	17	18	32	36	39	29	63	0.67	+ 2.0	7	5,284	s.w.	32	w.
North Platte.....	2,821	43	52	27.14	30.07	+ .05	55.0	+ 5.2	89	4	69	25	29	45	40	45	40	70	1.92	+ 0.9	5	6,266	w.	36	s.e.
<i>Middle Slope.</i>																									
Denver.....	5,291	79	151	24.80	30.08	+ .07	52.1	+ 1.6	80	4	66	25	19	38	40	42	35	62	0.40	+ 0.5	2	5,239	s.	36	w.
Pueblo.....	4,685	80	86	25.36	30.06	+ .07	52.7	+ 0.5	81	7	67	25	20	38	42	42	35	59	0.14	+ 0.6	3	4,239	n.e.	40	s.e.
Concordia.....	1,399	42	47	28.59	30.07	+ .04	58.5	+ 4.0	87	4	70	26	27	47	42	49	45	72	1.76	+ 0.4	6	4,821	s.	30	n.w.
Dodge.....	2,509	44	54	27.47	30.08	+ .06	58.2	+ 3.1	87	4	71	25	46	39	44	44	72	0.37	+ 0.9	2	5,472	s.	40	se.	
Wichita.....	1,358	78	84	28.66	30.10	+ .07	61.0	+ 3.4	89	4	73	31	27	49	38	51	45	65	0.35	+ 2.0	6	6,392	s.	33	n.w.
Oklahoma.....	1,214	79	80	28.78	30.06	+ .03	62.2	+ 1.9	90	2	75	34	28	52	53	45	68	0.05	+ 2.0	3	7,687	se.	35	n.	
<i>Southern Slope.</i>																									
Abilene.....	1,738	45	54	28.27	30.06	+ .05	66.7	+ 2.3	91	2	78	40	26	56	32	56	50	64	1.06	+ 1.3	4	5,067	se.	25	s.e.
Amarillo.....	3,676	10	49	26.34	30.06	+ .06	57.8	+ 1.6	85	3	69	29	26	47	32	49	44	71	0.44	+ 1.2	3	9,047	se.	49	s.e.
<i>Southern Plateau.</i>																									
El Paso.....	3,762	10	110	26.25	30.01	+ .09	62.8	+ 0.2	87	5	73	38	21	52	34	52	47	66	3.51	+ 2.6	10	6,353	ne.	20	e.
Santa Fe.....	7,013	33	39	23.83	30.05	+ .09	48.3	+ 1.0	70	4	59	24	26	38	29	39	33	61	1.70	+ 0.7	4	7,626	se.	25	s.e.
Flagstaff.....	6,907	12	25	24.30	29.99	+ .07	45.1	+ 3.4	72	3	60	18	30	39	43	44	48	50	0.15	+					

TABLE II.—Climatological record of voluntary and other cooperating observers, October, 1904.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Alabama.</i>	•	•	•	Ins.	Ins.	<i>Arizona—Cont'd.</i>	•	•	•	Ins.	Ins.	<i>California—Cont'd.</i>	•	•	•	Ins.	Ins.
Anniston	93	25	59.1	0.65		Holbrook	87	18	53.8	0.19		Azusa	96	41	67.4	0.34	
Ashville	87	26	60.0	0.81	T.	Huachuca Reservoir	.....	.....	.....	3.40		Bagdad	95	47	69.4	0.00	
Benton	97	32	67.6	1.33		Jerome	85	39	62.1	T.		Bakersfield	86	46	66.4	0.78	
Bermuda	99	29	65.2	0.31		Kingman	96	37	63.2	0.06		Barstow	95	33	62.6	0.00	
Boligee	99	29	65.2	0.10		Marcopha	98	41	69.7	T.		Bear Valley	.....	.....	.....	10.13	
Bridgeport	.....	.....	.....	.....		Mesa	101	40	70.5	0.15		Berkeley	77	45	58.6	3.39	
Burkeville	.....	.....	.....	T.		Mohawk Summit*1	109	60	76.4	0.00		Bishop	84	28	56.0	0.64	
Calera	.....	.....	.....	0.37		Natural Bridge	.....	.....	.....	0.00		Blue Canyon	78	31	51.8	8.75	
Camphill	98	33	67.4	0.00		Oracle	88	41	63.1	0.12		Boca*1	74	20	43.4	2.62	
Cedar Bluff	.....	.....	.....	0.69		Oro	.....	.....	.....	1.17		Bodie	69	—2	35.5	0.45	
Citronelle	95	43	70.4	2.03		Parker	104	34	70.2	0.00		Bowman	.....	.....	.....	12.43	
Clanton	100	38	65.4	0.02		Phoenix	99	34	68.3	0.00		Branscomb	85	31	56.8	7.98	
Cordova	94	25	61.8	0.55		Pinal Ranch	.....	.....	.....	0.35		Brush Creek	82	34	55.4	7.72	
Dadeville	.....	.....	.....	T.		St. Johns	85	17	52.8	0.35		Butte Valley	.....	.....	.....	6.05	
Daphne	95	44	71.4	0.35		San Carlos	98	34	66.4	0.14		Caliente*1	85	50	66.6	0.00	
Decatur	90	34	62.6	0.80		San Simon	90	30	61.2	1.30		Campbell	85	36	60.0	1.12	
Delmar	92	35	65.8	0.00		Sentinel*1	102	52	69.0	0.00		Camp	.....	.....	.....	0.13	
Demopolis	.....	.....	.....	0.02		Signal	100	35	68.3 <sup>c</sup>	0.02		Cederville	82	23	49.4	1.21	
Eufaula	93	33	66.0	0.10		Superstition	.....	.....	.....	T.		Chico	87	38	60.9	2.82	
Evergreen	98	32 <sup>c</sup>	65.4	T.		Taylor	86	17	55.9	0.25		Chino*5	91	45	66.1	0.08	
Fioniaton	98	33	68.2	1.76		Thatcher	94	32	63.0	0.85		Cisco*1	70	30	39.9	9.77	13.0
Florence a	.....	.....	.....	0.20		Tombstone	84	38	61.0	1.53		Claremont	96	44	68.4	0.40	
Florence b	89	29	62.1	0.10		Tuba	81	18	50.2	0.30		Cloverdale	92	40	62.6	4.79	
Fort Deposit	98	38	67.6	0.00		Tucson	97	35	68.4	0.04		Colusa	85	41	61.6	1.28	
Gadsden	90	29	63.3	0.70		Upper San Pedro	91	29	60.5	0.50		Coronado	.....	.....	.....	0.42	
Goodwater	94	30	63.2	0.06		Vail*5	96	54	71.0	0.04		Craftonville	.....	.....	.....	0.74	
Greensboro	95	37	66.5	0.08		Walnutgrove	.....	.....	.....	0.05		Crescent City	71	40	54.8	6.99	
Greenville	.....	.....	.....	0.00		Wilcox	88	29	59.5	0.61		Cuyamaca	71	25	48.8	1.18	
Hamilton	93	25	62.0	0.55		Williams	79	21	50.7	0.60		Delano*1	88	42	66.1	0.55	
Highland Home	95	41	68.2	0.00		Young	95	21	57.4	0.48		Delta	92	32	62.3	13.94	
Letohatchie	.....	.....	.....	0.00		<i>Arkansas.</i>	.....	.....	.....	0.80		Dobbins	98	44	65.0	4.41	
Livingston	94	30	64.2	0.63		Amity	94	30	63.8	1.78		Drytown	86	36	60.2	2.90	
Lock No. 4	93	28	62.8	0.78		Arkadelphia	93	32	63.8	1.06		Iunimigan*1	87	45	62.9	1.85	
Lucy	95	30	67.8	T.	Arkansas City	89	32	60.8	0.50		El Cajon	97	55	73.1	0.27		
Madison Station	93	30	64.6	0.20	Batesville	89	32	60.8	1.39		Elmdale	94	31	63.6	0.42		
Maplegrove	89	27	60.2	0.74	Beebranch	86	29	61.8	0.30		Elsinore	94	38	65.0	T.		
Marion	96	36	66.6	T.	Black Rock	.....	.....	.....	0.80		Folsom	.....	.....	.....	3.23		
Milestead	.....	.....	.....	T.	Bluffard	95	30	62.9 <sup>c</sup>	1.42		Fordyce	.....	.....	.....	9.20		
Newbern	101	31	68.2	T.	Brinkley	86	30	61.9	0.72		Fort Bragg	.....	.....	.....	3.97		
Notasulga	.....	.....	.....	0.00	Calico Rock	.....	.....	.....	1.81		Fort Ross	73	44	57.4	8.28		
Oneouto	90	26	60.6	0.38	Camden a	.....	.....	.....	0.13		Foster	86	36	50.7	0.33		
Opelika	95	43	66.6	0.00	Camden b	93	38	64.1	0.17		Georgetown	86	36	58.3	7.42		
Ozark	96	38	68.6	T.	Conway	90	32	64.3	1.38		Greenville	86	25	50.7	4.05		
Prattville	96	27	64.0	0.00	Corning	86	28	57.7	1.47		Haanford	89	38	62.8	0.84		
Pushmataha	94	30	64.8	0.13	Dallas	91	35	64.1	1.33		Heldsburg	94 <sup>a</sup>	39 <sup>a</sup>	63.0 <sup>a</sup>	6.92		
Riverton	91	27	61.2	0.20	Dardanelle	.....	.....	.....	1.54		Hollister	93	36	61.2	1.68		
Scottsboro	88	26	59.4	1.11	Des Arc	89	31	62.6	0.88		Idylwild	81	39	61.7	0.25		
Selma	98	33	68.2	T.	Dodd City	87	26	59.2	0.50		Indio	92	67	78.6	0.00		
Spring Hill	91	42	69.1	1.17	Dutton	81	28	58.1	1.90		Iowa Hill*1	82	43	57.6	6.91		
Talladega	95	30	65.2	1.00	Eldorado	97	36	65.6	1.04		Irvine	.....	.....	.....	0.79		
Tallasse	.....	.....	.....	0.00	Elon	96 <sup>c</sup>	32 <sup>c</sup>	64.6 <sup>c</sup>	0.32		Isabella	86	28	59.0	0.22		
Thomasville	97	38	67.3	0.10	Eureka Springs	87	31 <sup>c</sup>	62.3	0.99		Jamestown	89	29	57.8	3.94		
Tuscaloosa	97	32	64.5	T.	Forrest City	87	35	62.8	0.52		Kennedy Gold Mine	.....	.....	.....	3.90		
Tuscumbia	88	34	61.0	0.33	Fulton	92	32	59.8	1.00		Kentfield	.....	.....	.....	6.57		
Tuskegee	97	38	69.8	0.12	Hardy	88	31	62.0	0.74		Laguna Valley	.....	.....	.....	0.57		
Union Springs	94	38	66.4	T.	Heber	91	26	61.8	0.75		Lanesa	.....	.....	.....	0.32		
Uniontown	97	28	66.0	T.	Helena b	87	36	62.7	0.65		Laporte	72	31	48.9	10.70	3.0	
Valleyhead	87	25	59.6	1.52	Hope	96	36	67.0	0.55		Legrande	90	50	68.9	2.79		
Verbena	.....	.....	.....	0.00	Howe	100	34	67.8	0.25		Lemoncove	95	43	67.8	3.47		
Wetumpka	96	29	66.7	0.00	Lacrosse	92	32	59.8	1.00		Lick Observatory	76	35	55.6	2.51		
<i>Alaska.</i>	.....	.....	.....		Lake Village	94	36	65.1	0.21		Livermore	94	36	62.8	1.00		
Copper Center	55	0	30.5	0.48	Lonoke	91	31	64.6	0.69		Lodi	84	36	60.2	2.11		
Fort Liscum	57	21	37.6	9.16	Lutherville	90	29	59.3	0.30		Los Gatos	84	44	58.8	2.88		
Juneau	66	29	47.6	9.34	Luxora	.....	.....	.....	1.04		Magalia	89	41	61.2	11.34		
Ketchemstock	51	—10	22.4	0.30	Malvern	96	32	63.2	0.80		Mammoth*1	100	48	77.6	0.00		
Killisnoo	57	29	41.8	8.20	Marked Tree	85	20	55.8	T.		Marysville	91	40	63.1	3.01		
Loring	67	28	45.8	26.01	Marvell	87	31	63.0	0.82		Mercury	.....	.....	.....	6.44		
Orca	53	30	40.4	27.76	Mossville	84	34	58.8	2.97		Mills College	.....	.....	.....	3.12		
Sitka	59	33	46.4	10.38	Newton	83	34	58.8	0.92		Milo	86	40	62.2	2.26		
Skagway	61	24	43.3	5.35	Nelson	83	35	65.2	0.90		Milton (near)	86	40	62.2	2.15		
Tanana	48	—8	18.0	0.15	Perry	86	33	62.7	1.13		Modesto*1	98	41	71.2	0.30		
Teikhill	50	9	31.1	2.82	Pinebluff	92	32	62.6	0.40		Mohave	88	43	66.6	0.00		
Allaire Ranch	.....	.....	.....	2.83	Pocahontas	88	29	60.0	0.88		Mokelumne Hill	.....	.....	.....	4.27		
Alpine	.....	.....	.....	T.	Pond	87	24	60.2	1.20		Montague	88	27	53.6	1.70		
Arizona Canal Co. Dam	100	45	73.2	0.00	Prescott	94	36	66.4	0.54		Monterio	84	40	60.0	0.44		
Aztec	107	46	75.9	0.00	Princeton	93	30	64.0	T.		Monterey*1	80	42	61.5	1.92		
Benson	93 <sup>c</sup>	35 <sup>c</sup>	66.3 <sup>c</sup>	1.15	Rison	93	28	61.0	0.12		Mount St. Helena	93	40	63.7	7.68		
Bisbee	82	37	59.3	1.34	Russellville	86	31	59.4	3.32		Napa	92	40	62.8	2.63		
Blue	80	24	53.6	2.83	Silversprings	85	29	59.9	0.57		Needles	98	50	73.4	0.00		
Bowie	90	3															

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>California—Cont'd.</i>	°	°	°	Ins.	Ins.	<i>Colorado—Cont'd.</i>	°	°	°	Ins.	Ins.	<i>Florida—Cont'd.</i>	°	°	°	Ins.	Ins.
Porterville .....	92	40	64.2	0.60	14.0	Lamar .....	88	19	57.4	0.31	.....	New Smyrna .....	98	47	74.9	8.34	.....
Poway .....	75	26	49.8	4.79	.....	Las Animas .....	85	15	53.6	0.45	.....	Nocatee .....	92°	53°	75.0°	7.62	.....
Quincy .....	86	42	62.1	4.41	.....	Lay .....	72	7	41.0	0.18	T.	Ocala .....	96	47	72.8	3.64	.....
Redding .....	90	39	60.8	3.86	.....	Leadville (near) .....	61	8	37.6	0.55	3.0	Orange City .....	100	44	75.0	3.88	.....
Reedley .....	80	42	60.6	3.41	.....	Leroy .....	82	21	52.4	1.55	6.0	Orlando Home .....	97	45	74.0	4.02	.....
Repreza .....	86	41	61.8	2.88	.....	Lone Peak .....	67	9	39.4	1.15	3.0	Orlando .....	98	50	75.4	8.44	.....
Riovista .....	93	37	64.2	0.21	.....	Mancos .....	78	16	47.0	1.45	.....	Pinemount .....	98°	42°	71.2°	0.97	.....
Riverside .....	86	35	59.2	4.03	.....	Marshall Pass .....	.....	.....	.....	1.00	12.0	Plant City .....	98	46	74.6	4.18	.....
Rohnerville .....	86	40	59.7	2.26	.....	Meeker .....	74	11	42.1	0.77	T.	Rockwell .....	.....	.....	.....	3.62	.....
Rosewood .....	80	40	59.7	2.26	.....	Montrose .....	76	17	46.3	1.14	.....	St. Andrews .....	95	37	70.6	0.27	.....
Sacramento .....	87	37	62.0	1.75	.....	Platte Canyon .....	.....	.....	.....	0.88	5.0	St. Augustine .....	96	49	73.6	12.68	.....
Salinas .....	102	47	74.8	0.00	14.0	Rockyford .....	89	21°	54.0	0.60	.....	St. Leo .....	95	49	74.4	2.51	.....
San Bernardino .....	97	36	64.7	0.32	.....	Saguache .....	71	19	45.6	0.96	.....	Stephensville .....	98	35	71.2	1.50	.....
San Jacinto .....	79	35	54.9	0.13	.....	Salida .....	77	15	45.7	0.40	.....	Summer .....	95	35	71.7	2.43	.....
San Jose .....	87	40	62.6	1.43	.....	San Luis .....	72	13	44.3	1.34	.....	Switzerland .....	94°	47°	71.4°	8.93	.....
San Leandro .....	80	41	59.9	2.88	.....	Santa Clara .....	71°	17°	46.2°	2.16	15.0	Tallahassee .....	92	45	72.0	T.	.....
San Mateo* .....	87	50	62.5	2.25	.....	Sapinero .....	70	11	40.0	0.89	1.5	Tarpon Springs .....	92	45	74.0	1.06	.....
San Miguel* .....	87	42	63.0	0.40	.....	Sheridan Lake .....	83	18	54.7	0.98	.....	Titusville .....	99	42	74.5	5.97	.....
San Rafael .....	88°	42°	62.2°	5.08	.....	Silt .....	77	20	50.1	0.55	.....	Wausau .....	97	35	67.8	T.	.....
Santa Barbara .....	88	47	65.0	0.51	.....	Silverton .....	66	12	38.4	2.33	7.5	Wewahitchka .....	98	34	71.4	0.04	.....
Santa Clara College .....	89	36	61.4	1.41	.....	Sugar City .....	.....	.....	.....	0.35	.....	<i>Georgia</i> .....	.....	.....	.....	.....	.....
Santa Cruz .....	89	38	60.5	8.68	.....	Sugar Loaf .....	70	18	45.4	0.98	10.0	Abbeville .....	.....	.....	.....	0.13	.....
Santa Maria .....	87	46	63.8	1.25	.....	Trinidad .....	75	27	51.9	0.63	0.4	Adairsville .....	86°	30°	62.8°	0.48	.....
Santa Rosa .....	89	37	60.2	4.60	.....	Victor .....	67°	10	41.6°	0.63	0.4	Albany .....	97	44	72.4	T.	.....
Sausalito .....	.....	.....	.....	0.25	.....	Villas .....	.....	.....	.....	0.65	.....	Allapaha .....	92	36	67.5	0.13	.....
Shasta .....	92	40	64.6	6.08	.....	Wagon Wheel .....	67	9	39.0	1.91	.....	Americus .....	89	37	64.4	0.07	.....
Sierra Madre .....	91	49	66.6	0.57	.....	Walden .....	.....	.....	.....	0.26	2.0	Athens .....	85	36	61.5	0.99	.....
Sisson .....	83	24	50.2	6.65	.....	Waterdale .....	78	20	43.6	0.16	.....	Blakely .....	.....	.....	.....	0.25	.....
Snedden .....	.....	.....	.....	0.05	.....	Westcliffe .....	78	12	43.4	0.58	3.0	Bowersville .....	90	29	62.0	0.22	.....
Sonoma .....	85	41	60.4	1.51	.....	Whitepine .....	64	6	37.9	1.57	1.5	Carrollton .....	89	37	66.3	0.20	.....
Stockton .....	85	37	61.3	.....	Wray .....	85	18	54.2	1.19	.....	Canton .....	89	30	62.8	0.00	.....	
Storey .....	92	30	52.4	6.51	.....	Yuma .....	.....	.....	.....	1.07	6.0	Carlton .....	.....	.....	.....	0.57	.....
Summerdale .....	78	30	46.8	1.90	14.0	<i>Connecticut</i> .....	.....	.....	.....	.....	.....	Dudley .....	96	32	67.6	0.06	.....
Summit .....	62	30	46.8	3.52	.....	Bridgeport .....	80	24	51.0	2.82	.....	Egyptian .....	94	38	67.8	0.26	.....
Susanville .....	77	24	47.4	1.69	.....	Canton .....	75	14	46.0	3.38	.....	Eastman .....	90	36	63.6	0.49	.....
Tehama* .....	87	47	63.0	3.52	.....	Colchester .....	77	21	48.2	2.71	.....	Eatonton .....	92	33	62.4	0.62	.....
Tejon Ranch .....	85	44	64.4	0.60	2.0	Falls Village .....	.....	.....	Elberton .....	92	33	64.4	0.22	.....			
Truckee .....	70	30	48.0	3.64	.....	Hartford .....	73	25	48.7	2.52	.....	Fitzgerald .....	97	33	68.0	0.10	.....
Tulare c .....	90	40	63.2	1.71	.....	Hawleyville .....	75	19	48.6	3.69	.....	Fleming .....	95	33	66.6	0.21	.....
Tustin .....	.....	.....	0.19	.....	Lake Konomoc .....	.....	.....	Fort Gaines .....	93	31	66.9	0.39	.....				
Ukiah .....	92	33	59.0	5.35	.....	New London .....	75	27	50.3	1.96	.....	Gainesville .....	91	35	66.0	0.00	.....
Upland .....	86	39	63.1	0.95	.....	North Grosvenor Dale .....	78	16	46.6	2.01	.....	Gillsville .....	88	34	60.1	0.12	.....
Upperlake .....	92	29	57.6	3.79	.....	Southington .....	77	20	48.3	2.55	.....	Greenbush .....	87	33	63.0	T.	.....
Upper Mattole .....	.....	.....	11.62	.....	South Manchester .....	.....	.....	Greensboro .....	91	32	62.9	0.41	.....				
Vacaville* .....	94	45	62.2	2.70	.....	Storrs .....	74	21	49.2	2.19	.....	Griffin .....	93	38	65.0	0.39	.....
Ventura .....	96	50	66.1	0.88	.....	Voluntown .....	78	19	49.8	1.91	.....	Harrison .....	90	32	64.8	0.24	.....
Visalia .....	90	38	61.8	1.19	.....	Wallingford .....	.....	.....	Hawkinsville .....	95	30	66.4	0.15	.....			
Volcano .....	101	45	73.6	0.00	.....	West Cornwall .....	75	21	47.6	2.71	.....	Lost Mountain .....	88	34	62.2	T.	.....
Wasco .....	90	38	63.0	0.57	.....	West Simsbury .....	.....	.....	Louisville .....	87	37	63.8	0.46	.....			
Weldon .....	.....	.....	0.00	.....	Delaware City .....	.....	.....	Lumpkin .....	101	40	68.7	0.00	.....				
Westpoint .....	85	40	60.6	6.80	.....	Florida City .....	90	28	55.8	3.27	.....	Marshallville .....	90	38	65.6	0.10	.....
Wheatland .....	85	20	52.0	2.54	.....	Millsboro .....	88	26	54.5	2.62	.....	Mauzy .....	97°	70°	21°	0.03	.....
Willits .....	90	50	65.8	1.95	.....	Newark .....	83	26	52.4	2.35	.....	Milledgeville .....	89	34	64.4	0.69	.....
Willow .....	.....	.....	3.36	.....	Seaford .....	83	29	52.6	2.73	.....	Monticello .....	91	36	64.8	0.39	.....	
Yosemite .....	.....	.....	1.97	.....	<i>District of Columbia</i> .....	.....	.....	Morgan .....	94	36	65.0	T.	.....				
Zenia .....	82	33	55.8	6.29	.....	Distributing Reservoir* .....	79	31	56.9	1.85	.....	Newnan .....	91	36	64.0	0.00	.....
<i>Colorado</i> .....	.....	.....	.....	.....	Receiving Reservoir* .....	79	30	56.0	1.98	.....	Oakdale .....	.....	.....	.....	0.14	.....	
Akron .....	75	15	45.3	0.32	3.0	Brooksville .....	96	52	74.2	0.00	.....	Point Peter .....	89	28	61.6	0.70	.....
Alford .....	61	9	34.6	2.46	4.0	Carrollsville .....	94	40	71.6	2.26	.....	Poulan .....	94	36	68.2	T.	.....
Antelope Springs .....	66	5	38.5	0.94	.....	Carmel .....	96	53	75.2	11.25	.....	Putnam .....	94	36	66.1	0.07	.....
Ashcroft .....	84	19	56.4	0.60	.....	Eaton .....	95	48	74.9	5.35	.....	Quitman .....	93	34	67.8	0.40	.....
Blaine .....	82	29	54.8	1.06	5.0	Fernandina .....	94	52	65.9	0.10	.....	Ramsey .....	87	28	60.8	0.26	.....
Boulder .....	.....	.....	0.46	1.5	.....	Flamingo .....	90	64	78.4	7.41	.....	Resaca .....	.....	.....	.....	0.32	.....
Boxelder .....	63	5	37.0	0.90	10.0	Fort Meade .....	97	47	76.0	10.45	.....	Rome .....	88	29	60.1	0.86	.....
Burlington .....	82	18	53.0	1.35	.....	Huntington .....	96	62	76.0	9.75	.....	St. Marys .....	95	44	69.5	5.80	.....
Canyon .....	81	23	52.0	0.18	.....	Grasmere .....	95	48	72.2	2.77	.....	Statesboro .....	92	40	66.0	0.12	.....
Cheeseman .....	77	18	48.6	0.53	3.6	Huntington .....	96	41	72.4	5.09	.....	Talbotton .....	95	34	65.5	0.12	.....
Cheyenne Wells .....	81	18	53.8	0.99	T.	Hypoluxo .....	91°	63°	76.8°	7.43	.....	Tallapoosa .....	88	27	61.6	0.16	.....
Clearview .....	63	14	39.4	1.00	5.0	Inverness .....	94	45	73.8	3.20	.....	Thomaston .....	94	35	70.3	0.14	.....
Collbran .....	78	17	47.6	0.83	8.3	Jasper .....	96	35	67.8	0.25	.....	Toccoa .....	86	32	59.4	0.00	.....
Colorado Springs .....	74	22	49.2	0.27	.....	Federal Point .....	94	46	72.8	7.88	.....	Vidalia .....	92	39	67.7	0.41	.....
Conejos .....	74	16	45.3	0.99	.....	Fernandina .....	94	52	71.4	8.99	.....	Valona .....	94	42	68.1	0.80	.....
Cripple Creek .....	.....	.....	0.66	2.1	.....	Flamingo .....	90	60	78.8	2.96	.....	Washington .....	87	36	62.1	0.20	.....
Delta .....	82	11	47.7	0.20	.....	Fort Pierce .....											

TABLE II.—*Climatological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Idaho—Cont'd.</i>						<i>Illinois—Cont'd.</i>						<i>Iowa—Cont'd.</i>					
Forney.....	84	18	45.0	1.01	Ins.	Shobouier.....	86	24	56.8	0.81	Alta.....	78	25	50.6	2.46	Ins.	Ins.
Garnet.....	90	30	57.3	0.67	T.	Streator.....	83	26	54.0	0.20	Amana.....	79	22	52.6	1.00		
Grangeville.....	81	30	51.0	1.86		Sullivan.....	83	27	54.6	0.58	Ames.....	84	23	53.6	1.78		
Idaho City.....	84 <sup>c</sup>	23	51.5	1.38		Sycamore.....	81	24	51.4	0.84	Atlantic.....	85	19	54.2	1.40		
Lake.....	72	20	45.4			Tilden.....	82	28	57.1	0.57	Baxter.....	87	19	53.0	1.82		
Lakeview.....	79	29	47.2	1.25		Tiskilwa.....	80	27	52.4	0.28	Bedford.....	83	23	53.0	1.40		
Landore.....	75	20	46.8	0.63	0.8	Tuscola.....	82	23	53.1	1.42	Belknap.....	85	22	55.9	0.58		
Lost River.....	83 <sup>c</sup>	25 <sup>c</sup>	52.2 <sup>c</sup>	1.83	T.	Urbana.....	81	28	53.0	0.81	Belleplaine.....	81	22	52.3	1.55		
Lovell.....	76	22	46.0	2.27	3.0	Walnut.....	84	27	54.6	0.37	Bonaparte.....	83	24	54.6	0.14		
Meadows.....	76	22	46.0			Warsaw.....	80	24	51.5	0.00	Britt.....	87	22	50.9	1.65		
Milner.....	88	11	47.4	0.47		Winchester.....	84 <sup>c</sup>	31 <sup>c</sup>	56.0 <sup>c</sup>	0.09	Buckingham.....						
Moscow.....	78	30	51.1	1.49		Windsor.....	82	25	55.1	0.46	Burlington.....	83	2	55.8	0.43		
Murray.....	78	22	44.0	1.88	1.0	Winnebago.....	80	24	52.0	1.95	Carroll.....	85	24	52.7	1.99		
Oakley.....	79	24	50.6	0.87		Yorkville.....	81	24	51.6	1.44	Cedar Rapids.....	82	25	52.8	1.04		
Ola.....	81	25	52.0	2.04		Zion.....	80	24	51.5	2.36	Chariton.....	84	24	54.8	0.45		
Payette.....	85	28	54.4	0.80		<i>Indiana.</i>					Charles City.....	78	21	49.4	1.94		
Pollock.....	83	33	54.6	1.48		Auderson.....	80	24	53.0	0.78	Clarinda.....	90	25	54.4	1.72		
Poplar.....				1.89		Angola.....	77	26	50.3	2.54	Clearlake.....	76	26	51.0	2.65		
Porthill.....	74	24	45.3	0.92	1.0	Auburn.....	77	22	50.7	1.40	Clinton.....	83	26	51.8	0.58		
Roosevelt.....	66	17	42.3			Bloomington.....	79	29	54.8	1.30	College Springs.....	85	27	56.6	1.34		
St. Maries.....	85	28	50.2	1.58		Bluffton.....	81	22	51.8	1.85	Columbus Junction.....	81	25	53.1	0.74		
Soldier.....	82	7	45.6	0.95		Butlerville.....	84	25	55.3	0.60	Corydon.....	83	22	54.6	2.13		
Swan Valley.....	76	11	44.5		2.0	Cambridge City.....	81	23	51.6	1.52	Cresco.....	88	22	56.4	0.14		
Vernon.....	71	19	47.5	0.75		Columbus.....	82	24	54.1	1.38	Cumberland.....	76 <sup>c</sup>	25 <sup>c</sup>	52.2 <sup>c</sup>	2.25		
Victor.....	82	10	45.8	1.71	5.0	Connerville.....	85	25	54.1	0.88	Decorah.....	88	23	51.6	3.92		
<i>Illinois.</i>						Crawfordsville.....	80	25	53.0	1.35	Delaware.....	78	22	50.4	2.62		
Albion.....	83	29	55.4	0.45		Delphi.....	82	22	51.6	0.65	Denison.....	85	20	53.3	1.41		
Aledo.....	80	25	53.5	0.62		Farmersburg.....	84	23	56.0	0.68	Desoto.....	88	22	54.9	1.57		
Alexander.....	85	26	56.2	0.27		Farmland.....	79	26	52.4	0.88	Dows.....	79	21	51.3			
Antioch.....	80	23	53.2	1.20		Fort Wayne.....	80	24	52.0	2.00	Earlham.....	85 <sup>c</sup>	16 <sup>c</sup>	52.8 <sup>c</sup>	1.55		
Ashton.....	81	22	51.4	0.93		Franklin.....	83	21	53.8	1.73	Eldader.....	82	20	51.8	1.74		
Astoria.....	82	26	53.8	0.38		Greencastle.....	78	27	53.6	1.01	Estherville.....	77	22	49.2	2.85		
Aurora.....	89	25	51.4	1.52		Greensburg.....	83	27	54.0	0.98	Florence.....						
Benton.....	85	29	58.8	0.26		Hannomd.....	81	30	53.0	1.48	Forest City.....	88	24	51.0	1.89		
Bloomington.....	84	27	57.0	0.52		Hector.....	80	23	51.6	T.	Fort Dodge.....	77	22	51.5	2.08		
Bushnell.....	85	27	56.8	0.44		Holland.....	88	25	57.6	0.30	Fort Madison.....						
Cambridge.....	82	30	55.9	0.27		Huntington.....	78	24	50.6	1.47	Galva.....	81	19				
Carlinvile.....	84	28	56.5	0.43		Jeffersonsville.....	84	29	56.3	0.27	Gilmant.....						
Carrollton.....	85	28	57.0	0.50		Kokomo.....	80	24	52.0	1.28	Glenwood.....	85	26	56.2	0.45		
Charleston.....	83	26	55.4	0.80		Lafayette.....	82	26	52.0	0.78	Grand Meadow.....	76	25	50.8	3.09		
Chester.....				1.42		Laporte.....	78	26	50.6	1.22	Greene.....	78	21	51.6	2.34		
Ciese.....	85	25	57.8	0.34		Logansport.....	80	25	52.2	1.08	Greenfield.....	83	24	54.1	1.49		
Coatsburg.....	82	26	55.1	0.16		Madison a.....	90	26	57.2	0.39	Grinnell.....	81	25	53.6	0.64		
Cobden.....	84	32	58.6	0.90		Madison b.....					Grunell (near).....	82	24	53.8	0.83		
Danville.....	85 <sup>b</sup>	24	53.9 <sup>b</sup>	0.90		Marengo.....	86	25	54.7	1.26	Grundy Center.....	81	23	52.8	1.70		
Decatur.....	85	28	56.2	0.18		Marion.....	80	23	52.4	1.27	Guthrie Center.....	84	22	54.0	2.68		
Dixon.....	85	21	51.6	0.86		Markle.....	80	22	52.0	1.30	Hampton.....	86	23	53.2	2.13		
Efdingham.....	83	23	55.8	0.27		Mauzy.....	86	23	53.6	1.06	Hanlontown.....	79	20	50.0	2.23		
Equality.....	85	28	58.9	2.05		Moore's Hill.....	86	27	55.6	0.50	Harlan.....	84	20	53.0	0.92		
Fandon.....	84	27	55.7	0.18		Mount Vernon.....	82	26	55.2	0.10	Hopewell.....	85	21	55.1	0.90		
Flora.....	81	22	54.2	0.87		Northfield.....	80	20	50.6	1.01	Humboldt.....	77	22	52.3	1.59		
Friendgrove.....	80	29	55.4	0.27		Paoli.....	87	24	55.3	0.64	Ida Grove.....	80	20	52.2	1.40		
Galva.....	82	26	52.8	0.24		Princeton.....	84	25	55.9	0.58	Independence.....	80	23	51.5	1.89		
Grafton.....				1.35		Rensselaer.....	80	28	52.3	1.14	Indiana.....	80	24	54.0	1.09		
Greenville.....	85	32	58.0	1.31		Richmond.....	83	23	52.4	1.98	Inwood.....	80	26	50.6	4.34		
Griggsville.....	85	30	56.8	0.50		Rochester.....	80	25	52.6	1.42	Iowa City.....	81	24	53.2	1.39		
Halfway.....	81	33	58.0	0.83		Rockville.....	81	29	54.2	0.96	Iowa Falls.....	79	19	50.4	1.92		
Havana.....	85	27	55.8	0.31		Rome.....	87	22	59.1	0.06	Keosauqua.....	82	25	53.5	0.39		
Henry.....	83 <sup>c</sup>	24 <sup>c</sup>	55.4 <sup>c</sup>	0.31		Salem.....	86	22	56.6	0.56	Lacona.....						
Hillsboro.....	85	30	57.7	0.62		Scottsburg.....	85 <sup>b</sup>	27	56.1	0.27	Larrabee.....	81	24	51.8	3.18		
Hooperston.....	80	24	53.1	0.38		South Bend.....	80	27	51.2	2.12	LeClaire.....						
Joliet.....	80	29	52.9	1.44		Syracuse.....	79	25	51.8	2.51	Lemars.....	82	20	51.1	0.87		
Kishwaukee.....	82	24	52.5	1.89		Terre Haute.....	82	28	57.2	0.81	Lenox.....	85	25	54.6	1.03		
Knoxville.....	82	24	53.0	0.10		Topeka.....	81	26	53.0	1.00	Leon.....	80	25	54.4	0.74		
Lagrange.....	81	28	52.0	1.59		Valparaiso.....	80	28	53.8	1.12	Little Sioux.....	89	23	55.6	1.34		
Laharpe.....	85	28	55.9	0.45		Vevey.....	87	29	56.4	0.95	Logan.....	85	22	53.5	1.53		
Lnark.....	82	22	52.2	1.20		Vincennes.....	86	26	56.5	0.86	Maple Valley.....						
McLearnsboro.....	84	31	57.0	0.40		Washington.....	83	27	53.7	0.58	Maquoketa.....	81	20	51.0	1.93		
Martinsville.....	82 <sup>c</sup>	23 <sup>b</sup>	54.7 <sup>i</sup>	0.60		Worthington.....	84	24	55.4	2.48	Marshalltown.....	85	22	52.1	1.73		
Martin.....	83	25	58.8	1.23		<i>Indian Territory.</i>					Mason City.....	75	27	51.0	1.85		
Mascoutah.....	88	28	55.6	0.88		Ardmore.....	93	35	65.1	2.23	Mountay.....	86	26	56.8	1.08		
Mattoon.....	87	33	60.0	0.17		Calvin.....	99	27	60.4	2.40	Mount Pleasant.....	82	26	54.0	0.43		
Minonk.....	85	24	54.3	0.17		Durant.....	96	36	65.4	3.42	Mount Vernon.....	80	24	52.8	2.49		
Monmouth.....	83	24	53.0	0.36		Fairland.....	91	24	62.0	1.47	New Hampton.....	77	24	50.6	2.34		
Morrison.....	83	24	53.2	0.60		Fort Gibson.....	100	31	65.5	0.85	Northwood.....						
Morrisonville.....	82	29	56.3	0.74		Goodwater.....	95	36	65.4	2.03	Odebolt.....	80	21	52.5	1.24		
Mount Carmel.....				0.60		Hartschorne.....	94	29	63.8	0.86	Ogden.....	83	25	53.4	1.53		
Mount Pulaski.....	82	28	56.0	0.50		Headton.....	94	30	65.7	0.92	Olin.....	79	26	52.4	3.78		
Mount Vernon.....	85	27	58.0	0.56		Holdenville.....	91	35	64.2	2.22	Onawa.....	85	25	55.7	2.07		
New Burnside.....	84	29	58.0	1.74		Marlow.....	95	35	64.4	T.	Osage.....	76	24	49.8	2.08		
Olney.....	83	27	56.6	0.53		Muskogee.....	91	31	62.8	1.32	Oscoola.....	86	27	57.4	0.27		
Ottawa.....	83	27	55.0	0.26		Okmulgee.....	90	29	62.9	2.01	Oskaloosa.....	82	25	54.9			
Palestine.....	84	24	55.8	0.10		Pauls Valley.....					Pacific Junction.....	87	22	55.2	1.07		
Pana.....	83	30	55.9	0.54		Ravia.....	95	36	67.2	2.19	Perry.....	84	23	53.4	2.01		

TABLE II.—*Climatological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipa- tion.		Stations.	Temperature. (Fahrenheit.)			Precipa- tion.		Stations.	Temperature. (Fahrenheit.)			Precipa- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	
Iowa—Cont'd.	°	°	°	Ins.	Ins.	Kansas—Cont'd.	°	°	°	Ins.	Ins.	Maine—Cont'd.	°	°	°	Ins.	Ins.	
Spirit Lake	78	22	50.4	2.38		Wamego* <sup>1</sup>	84	28	57.6	0.52		Gardiner	72	19	45.4	2.02	T.	
Stockport	81	27	55.2	0.34	T.	Winfield	85	26	59.9	0.45		Houlton	66	18	45.2	3.40	T.	
Storm Lake	79	26	50.4	3.09		Kentucky.	Alpha	84	28	59.2	0.60		Lewiston	74	25	46.4	1.88	T.
Stuart	82	26	54.1	2.17		Anchorage	86	24	55.6	0.28		Madison	68	22	44.7	2.98	T.	
Thurman	86	22	55.4	2.44		Bardstown	89	25	59.6	0.20		Mayfield	63	17	41.6	2.42	T.	
Tipton	80	27	54.1	0.89	T.	Beattyville	90	25	56.2	0.43		Millinocket	65	23	44.3	3.21	T.	
Toledo	82	19	53.2	1.10		Beaver Dam	87	23	56.4	0.37		North Bridgton	75	22	46.4	1.70	T.	
Vinton	81	19	53.5	1.35		Berea	88	25	57.7	0.93		Oquossoc	64	15	40.4	1.69	T.	
Wapello	78	29	53.9	0.77	T.	Blandville	82	32	57.5	1.03		Orono	69	20	46.1	3.10	T.	
Washington	82	26	53.9	0.54		Bowling Green	90	26	58.6	0.05		Patten	66	15	41.9	3.10	T.	
Washta				2.50		Burnside	88	27	57.4	0.63		Rumford Falls	70	22	44.8	2.76	T.	
Waterloo	81	23	53.8	1.24		Cadiz	83	28	59.2	0.54		South Lagrange	76	20	46.8	2.40	T.	
Waukeen	96	24	56.0	1.07		Calhoun	86	27	58.8	0.20		The Forks				2.23	T.	
Waverly	79	23	52.4	1.68		Catlettsburg	89	29	57.8	0.72		Vanburen	65	16	43.0	2.86	T.	
Westbend	77	22	50.6	1.58		Earlington	87	27	57.2	0.33		Vanceboro	68	18	43.5	2.66	T.	
Whatcheer	56 <sup>b</sup>	24 <sup>b</sup>	55.2	0.27		Edmonton	87	23	54.8	0.30		Winslow	72	19	42.6	2.64	T.	
Whitten	79	21	51.7	1.50		Eubank	86	25	55.0	0.74		Maryland.						
Wilton Junction	84	24	53.4	0.94		Falmouth						Annapolis	81	32	55.4	3.30		
Winterset	90	20	55.2	1.09		Fords Ferry	85	23	57.0	0.82		Bachmans Valley	83	22	50.4	2.48		
Woodburn				0.50		Frankfort	84	29	56.6	0.38		Boettcherille	91	20	54.4	1.38		
Zearing	83	21	52.6	1.01		Greensburg	90	22	56.3	0.16		Cambridge	89	31	57.0	2.03		
Kansas.						Highbridge	88					Chase	85			3.78		
Achilles	91	13	55.1	1.78	0.5	Hopkinsville	87	25	58.2	0.35		Cheltenham	87	27	53.5	2.20		
Alton	89	21	58.8	0.70		Irvington	93	28	58.6	0.26		Chestertown	79	30	52.6	2.27		
Anthony				0.40		Jackson	89	20	58.4	0.98		Chewsville	88	29	52.7	2.67		
Atchison	84	27	57.2	3.58		Leitchfield	85	27	56.6	0.20		Clearspring	88	26	52.4	2.68		
Baker	89	26	56.8	2.50		Loretto	86	20	59.2	0.24		Coleman	85	29	55.0	2.76		
Burlington	90	25	60.2	0.97		Manchester	88	23	56.2	1.60		Collegepark	90	24	54.6	2.27		
Chapman	85	29	61.2	0.71		Mayfield	85	29	57.6	0.84		Colora.				4.43		
Clay Center	86	25	56.8	2.77		Maysville	88	27	57.4	0.47		Cumberland				0.61		
Coffeyville	95	28	64.4	2.00		Mount Sterling	84	26	54.8	0.45		Darlington	82	24	51.4	5.30		
Colby	95	16	56.0	1.78	T.	Owensboro	85	31	57.7	0.10		Dearpark.	80 <sup>c</sup>	16 <sup>c</sup>	46.9 <sup>c</sup>	1.98	0.51	
Columbus	86	26	59.5	0.30		Owenton	83	34	56.6	0.42		Denton	88	28	53.9	1.92		
Cunningham	93	23	62.4	1.20		Paducah a.						Easton	84	28	53.4	2.42		
Dresden	90	24	57.8	2.83	T.	Paducah b.	87	34	60.0	1.35		Fallston	83	25	52.6	4.19	T.	
Eldorado	89	26	61.0	0.44		Princeton	86	27	58.2	0.67		Frederick	91	23	54.4	1.56		
Ellinwood	85	26	59.2	0.63		Richmond	87	29	60.2	0.40		Grantsville	85	14	49.8	1.65		
Ellsworth	89	25	59.2	0.32		St. John.	84	26	56.0	0.21		Greatfalls	90	22	53.8	2.07		
Emporia	91	28	59.2	0.47		Scott	86	26	56.6	0.80		Greenspring Furnace.	90	22	53.4	2.33		
Englewood	91	28	61.4	0.77		Shelby City	89	22	57.4	0.28		Hancock	89	20	53.4	2.10		
Enterprise	86	29	57.3	0.74		Shelbyville	88	24	56.8	0.44		Harney				2.17		
Eureka				0.86		Taylorsville	86	23	55.8	0.44		Jewell	86	28	54.9	3.11		
Fall River	86	23	59.4	0.72		Williamsburg	90	27	58.1	0.85		Johns Hopkins Hospital	86	30	55.4	3.93		
Farnsworth	89	23	57.9	2.36		Williamstown	85	33	59.0	0.53		Laurel	89	28	53.6	3.00		
Porsha	90	26	60.6	0.67		Louisiana.						McDonogh				3.10		
Fort Leavenworth	83	32	59.4	1.50		Abbeville	95	41	71.6	1.18		Moun St. Marys College	86	26	54.4	1.90		
Fort Scott	89	26	59.5	0.92		Alexandria	96	37	68.9	0.50		New Market	86	23	53.1	2.24		
Frankfort	89	23	57.8	2.31		Amite	96	35	68.2	0.50		Oakland	79	15	49.0	1.53		
Fredonia	88	29	59.4 <sup>a</sup>	0.46		Baton Rouge	98	43	72.0	0.91		Pocomoke City	83	32	55.4	2.70		
Garden City	88	23	58.1	1.20		Burrside	95	38	69.9	0.65		Princess Anne	85	27	54.0	2.84		
Gove*	87	25	55.3	2.00		Calhoun						Solomons.	86	35	57.6	1.13		
Grenola	86	22	58.8	0.66		Cameron	94	45	72.0	0.74		Sudlersville	85	26	54.9	2.88		
Harrison	89	23	56.4	1.68		Clinton	93	36	67.9	0.02		Takoma Park	86	27	52.8	2.44		
Holton	27			1.09		Collinston	93	33	65.4	0.75		Van Bibber	80	28	52.4	4.24		
Horton	86	27	58.0	2.42		Covington	97	36	69.4	0.26		Westernport	82 <sup>d</sup>	23 <sup>d</sup>	50.4 <sup>d</sup>	1.29		
Hoxie	87	22	57.0	2.78		Donaldsonville						Woodstock.	82	26	54.0	3.23		
Hugoton	88	24	58.4	1.14		Emilie	94	42	70.0	0.45		Massachusetts.						
Hutchinson	87	24	57.9	0.66		Farmerville	96 <sup>e</sup>	38	67.3	0.00		Asherst	78	18	47.1	1.74	T.	
Independence	89	29	61.4	1.19		Franklin	98	42	72.6	0.27		Bedford	69	20	47.5	1.69	T.	
Iola				0.44		Georgetown	98	33	66.8	0.90		Bluehill (summit)	72	22	47.9	2.72	T.	
Lakin	85	22	56.3	0.83		Hammond	93	36	67.8	0.31		Cambridge	74	23	49.6	2.00		
Larned	88	19	57.0	1.70		Houma	91	37	69.0	0.88		Chestnuthill	75	22	49.3	2.21		
Lebanon	90	21	56.5	1.50		Jennings	96	38	70.4	0.75		Concord	74	17	46.2	1.55	T.	
Lebo	89	30	59.8	1.27		Lafayette	96	39	70.2	0.44		East Templeton*	68	22	45.4	1.00	T.	
Macksville	89	21	59.6	0.10		Lake Charles	97	42	71.1	0.30		Fall River.	72	24	49.6	1.57	T.	
McPherson	88	26	60.6	1.53		Lakeside	94	45	70.8	1.87		Fitchburg a.*	68	24	45.5	2.00	T.	
Madison	90	23	57.9	0.70		Lawrence	96	50	73.1	1.30		Fitchburg b.	75	23	47.8	1.71	T.	
Manhattan b.	91	26	59.8	0.99		Leesville	95	32	67.2	0.39		Framingham.	75	20	48.4	1.51	T.	
Manhattan c.	93	27	58.0	1.06		Libertyhill	100	36	68.5	0.15		Groton.	72	18	45.5	1.25	T.	
Marion	82	29	59.0	0.85		Logansport						Hyanuis				2.23	T.	
Medicine Lodge	96	25	62.0	0.91		Mansfield	97	34	66.0	0.57		Jefferson				1.02	T.	
Minneapolis	87	26	57.8	2.55		Minden						Lawrence	68	21	47.1	1.09		
Moran	87	28	60.9	0.67		Monroe	101	39	70.0	2.10		Leominster.				1.51	T.	
Mouthope	84	32	60.2	1.03		New Iberia	91	46	71.1	T.		Lowell a.	74	24	49.6	1.28	T.	
Ness City	90	26	60.1	1.07		Opelousas	97	38	69.3	0.30		Ludlow Center.	71	16	43.7	1.39		
Norton	91	22	58.0	3.65		Oxford	96 <sup>f</sup>	37	69.4 <sup>f</sup>	1.35		Middleboro	77	19	47.8	1.80		
Norwich	92	28	61.3	0.51		Plain Dealing	98	32	67.0	0.55		Monson	74	17	46.8	1.97		
Oberlin				2.41		Port Eads.	92	61	76.2	1.66		New Bedford.	73	22	48.6	1.36		
Olathe	84 <sup>g</sup>	39	62.9 <sup>g</sup>	0.55		Rayne.	96	40	71.0	0.10		Plymouth* <sup>1</sup>	71	27	49.5	1.87		
Osage City	90 <sup>g</sup>	26 <sup>g</sup>	58.9 <sup>g</sup>	0.13		Robeline	95	33	65.8	0.55		Princeton.				1.95		
Osborne	84			0.87		Ruston	100	34	67.8	0.00		Provincetown.	72	32	53.0	1.99		
Oswego	88	25	61.2	0.18		St. Francisville	92	37	69.2	T.		Salem.				2.21		
Ottawa	88	23	58.2	0.68		Southern University	94	45	71.0	0.75		Somerset.	76	20	50.1	1.40		
Plainville	87	32	61.0	1.71		Sugar Experiment Station.	94	45	71.0	0.75		Sterling.				1.70		
Pleasanton	85	25	60.2	0.35		Venice.	95	40	69.6	0.00		Taunton.	76	15	47.6	1.72		
Pratt	91	26	61.2	0.75			95	44	73.9	1.32		Webster.				2.00		
Republic	88	23	57.0	2														

## MONTHLY WEATHER REVIEW.

OCTOBER, 1904

TABLE II.—*Climatological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Michigan—Cont'd.</i>						<i>Minnesota—Cont'd.</i>						<i>Mississippi—Cont'd.</i>					
Arbela	77	25	48.6	2.93	Ins.	Bird Island	75	22	49.6	4.12	T.	Walnut Grove	94	32	66.0 <sup>d</sup>	0.00	
Baldwin	80	22	48.4	1.29	T.	Blooming Prairie	78	25	49.2	4.25	T.	Watervalley	92	31	64.4	0.15	
Ball Mountain	79	24	48.2	3.00	T.	Caledonia	77	22	49.9	2.61	T.	Waynesboro	98	29	66.8	0.20	
Baraga	72 <sup>b</sup>	22 <sup>b</sup>	44.0 <sup>e</sup>	3.10	T.	Collegeville	75	26	47.0	4.61	T.	Woodville	94	44	68.3	0.00	
Battle Creek	76	21	48.6	2.98	T.	Crookston	71	23	45.8	2.98	T.	Yazoo City	97	33	65.6	0.00	
Bay City	80	26	48.6	2.50	T.	Deephaven				5.75		<i>Missouri.</i>					
Benzonia	75 <sup>e</sup>	26 <sup>e</sup>	47.2 <sup>e</sup>	4.28	T.	Detroit City	71	21	44.8	1.21	T.	Appleton City	89	25	60.2	0.48	
Berlin	78	20	46.6	2.15	T.	Faribault	77	22	49.2	3.69	T.	Arthur	87	23	58.4	0.51	
Berrien Springs	83 <sup>c</sup>	26 <sup>c</sup>	52.8 <sup>c</sup>	2.27	T.	Farmington	74	26	48.5	4.69	T.	Avalon	88	27	56.9	0.90	
Big Rapids	79	20	45.2	3.66	T.	Fergus Falls	71	23	47.2	1.44	T.	Bethany	81	23	54.2	0.98	
Birmingham	77	26	48.9	1.52	T.	Floodwood	70	23	44.4	2.80	T.	Birchtree	83 <sup>c</sup>	31	60.1 <sup>e</sup>	0.69	
Bloomingdale	80	29	51.1	3.53	T.	Glencoe	77	25	47.8	4.40	T.	Blue Springs	83	27 <sup>d</sup>	57.2 <sup>e</sup>	1.46	
Calumet	68	27	43.6	5.75	0.2	Grand Meadow	78	24	49.4	3.15	T.	Boonville				1.43	
Cassopolis	77 <sup>f</sup>	26 <sup>f</sup>	49.4 <sup>f</sup>	3.00	0.5	Hallock	70	18	44.3	0.39	0.2	Brunswick	81	29	56.2	1.41	
Charlevoix	76 <sup>d</sup>	29	49.1 <sup>d</sup>	2.30	4.0	Lake Winnibigoshish	65	24	43.4	1.47	0.9	Carlton	84	26	57.6 <sup>e</sup>	0.27	
Chatham	76	20	43.4	1.29	0.2	Leech	73	20	44.8	2.43	T.	Caruthersville	88	29	59.7	1.53	
Clinton	78	20	49.8	1.26	T.	Long Prairie	77	19	45.8	4.40	T.	Conception	88	27	56.6	1.08	
Coldwater	88	26	51.8	4.57	T.	Luverne	80	25	49.2	5.03	T.	Darksville	82	29	55.3	0.80	
Deer Park	68	25	43.2	3.25	T.	Lynd	78	20	48.6	2.68	T.	Dean	88 <sup>a</sup>	29	63.9 <sup>a</sup>	1.15	
Detour	67	27	44.6	2.77	1.5	Mankato				2.14	T.	Desoto	86 <sup>c</sup>	28	58.8 <sup>e</sup>	1.51	
Dundee	80	25	50.4	0.82	T.	Maple Plain	77	25	48.8	6.88	T.	Doniphan	86	27	58.0	0.54	
Eagle Harbor	68	29 <sup>c</sup>	44.1	4.80	T.	Milan	80	20	48.6	4.45	T.	Downing				0.15	
East Tawas	72	20	44.5	1.67	T.	Minneapolis <sup>1</sup>	76 <sup>*</sup>	25	47.9	5.19	T.	Fairport				1.26	
Eloise	78	23	49.3	T.	Montevideo	80	23	49.8	3.13	T.	Fayette	82	25	55.4	1.66		
Ewen	70	17	42.6	0.82	3.0	Mora	70	19	45.8	5.25	0.3	Fulton	85	25	56.6	1.48	
Fitchburg	80	19	47.7	2.08	T.	Morris	76	28	47.4	2.64	T.	Gallatin <sup>*1</sup>	86	30	59.4	1.15	
Flint	77	20	48.6	4.07	T.	Mount Iron	68	18	43.6	2.66	0.5	Gano	85	27	58.1	1.00	
Gaylord	69	23	45.8		2.5	New London	78	22	44.6	3.15	T.	Glasgow	85	29	58.0	1.19	
Gladwin	79	17	46.0	4.30	T.	New Richland	78	25	51.4	2.01	T.	Gorin				0.34	
Grand Haven	73	30	49.8	3.28	T.	New Ulm	78	26	50.0	5.03	T.	Grant City	86	27	56.6	1.26	
Grand Marais	74 <sup>c</sup>	25	45.6 <sup>c</sup>	4.76	T.	Park Rapids	66	22	43.8	1.72	T.	Halftway	87	24	57.7	0.17	
Grape	78	24	49.8	0.93	T.	Pine River	70	20	44.8	4.67	T.	Harrisonville	86	25	56.9	0.72	
Grayling	80	19	44.3	2.50	3.0	Pleasant Mounds	76	24	50.8	2.88	T.	Hazlehurst				0.98	
Hagar	78	27	51.0	2.67	T.	Pokegama Falls	68	11	40.5	2.75	2.0	Hermann				1.19	
Harbor Beach	73	24	48.4	2.48	T.	Redwing <sup>a</sup>				6.30	T.	Houston	88	22	57.4	0.41	
Harrison	78	23	46.6	3.75	T.	Reeds				5.10	T.	Ironton	85	23	55.8	0.89	
Harrisville	76	24	46.4	1.57	T.	Rolling Green	78	26	50.0	2.05	T.	Jackson	89	27	58.4	1.09	
Highland						St. Charles	77	23	49.7	3.09	T.	Jefferson City	87	28	57.4	1.42	
Hillsdale	77	26	49.4	1.93	T.	St. Cloud	70 <sup>m</sup>	26	47.1 <sup>s</sup>	5.01	T.	Joplin	87	30	62.2	1.18	
Howell	76	26	47.2	1.58	T.	St. Peter	80	21	51.1	3.88	T.	Kidder	83	27	56.6	1.55	
Humboldt	66 <sup>f</sup>	15 <sup>f</sup>	39.8 <sup>f</sup>		4.0	Sandy Lake Dam	70	20	44.1	3.63	1.2	Koshkonong	87	32	59.4	0.28	
Ionia	78	25	48.2		T.	Shakopee	77	23	47.2	4.56	T.	Lamar	88	25	60.6	0.59	
Iron Mountain	72	19	44.0	3.52	T.	Wabasha	79	23	51.8	4.32	T.	Leamonte				T.	
Iron River	71	16	42.2	5.90	0.5	Wadena	72	22	45.4	1.92	T.	Lebanon	81	28	57.6	0.52	
Ironwood	70	24	43.8	5.39	3.0	Willow River	67	19	44.0	5.44	T.	Lexington	84	31	58.2	1.98	
Ishpeming	69	22	44.0	4.15	6.0	Winnebago	78	25	51.2	2.72	T.	Liberty	82	30	57.8	1.71	
Ivan	75	22	44.2	2.43	1.5	Winona	78	25	50.7	2.91	T.	Lockwood	87	28	59.4	0.55	
Jackson	79	25	50.3	1.24	T.	Worthington	82	21	48.3	6.37	T.	Louisiana	88	25	55.8	0.40	
Jeddo	77	26	48.2	2.33	T.	Zumbrota	75	20	49.2	5.15	T.	Macon	84	29	56.8	0.60	
Kalamazoo	77	27	51.2	1.84	T.	<i>Mississippi.</i>					T.	Marblehill	86	28	58.2	1.36	
Lake City				1.55	T.	Aberdeen	90	30	62.4	0.23	T.	Marshall	83	27	58.0	1.59	
Lansing	78	27	49.0	2.20	T.	Austin	89	30	61.2	1.03	T.	Maryville	82	27	54.1	1.76	
Ludington	70 <sup>b</sup>	28 <sup>b</sup>	50.0 <sup>b</sup>	2.09	T.	Batesville	90	29	61.4	0.75	T.	Mexico	87	27	58.0	0.69	
Mackinac Island	71	28	45.2	6.65	T.	Bay St. Louis	97	45	72.0	2.45	T.	Miami <sup>*5</sup>	82	29	57.1	2.20	
Mackinaw City				3.30	T.	Biloxi	98	46	72.8	1.12	T.	Montreal	87	23	57.0	0.89	
Mancelona	76	22	44.7	2.71	3.0	Booneville	86 <sup>t</sup>	34 <sup>t</sup>	59.7 <sup>t</sup>	0.18	T.	Mountaintrove	84	25	57.8	0.33	
Marine City	79	28 <sup>c</sup>	49.3 <sup>c</sup>	2.00	T.	Brookhaven	97	34	66.6	0.00	T.	Mount Vernon	90	24	58.8	0.91	
Menominee	76	25	47.5	2.15	T.	Canton	95	30	65.9	0.00	T.	Neosho	88	23	59.8	0.75	
Midland				1.24	T.	Columbia	98	30	66.4	0.00	T.	Nevada				0.41	
Montague	78	29	50.4	3.35	T.	Corinth	95	30	63.5	0.10	T.	New Haven	86	28	58.5	1.08	
Mount Clemens				1.11	T.	Crystal Springs	96	39	68.4	0.00	T.	New Madrid				0.71	
Muskegon	75	29	49.6	6.15	T.	Duck Hill	93 <sup>d</sup>	24 <sup>d</sup>	59.4 <sup>d</sup>	T.	T.	New Palestine	84	29	58.2	1.34	
Newberry	65					Edwards	93	33	66.0	0.06	T.	Oakfield	85	28	58.5	1.03	
Old Mission	74	30	47.9	2.88	2.0	Fayette	93	35	65.2	T.	Olden	84	24	58.0	0.54		
Olivet	75	28	48.8	2.87	T.	Fayette (near)				T.	Oregon	85	25	56.8	0.94		
Omer	76 <sup>e</sup>			0.99	T.	Greenville <sup>a</sup>	90	36	64.5	0.15	T.	Palmyra <sup>*5</sup>	84	30	57.5	0.50	
Onaway	74	20	45.2		T.	Greenville <sup>b</sup>	94	38	66.6	0.16	T.	Pine Hill				1.73	
Ovid	76	27	48.7	4.79	T.	Greenwood	93	31	63.8	T.	Princeton	86	28	56.3	0.26		
Owosso	79					Laurel	98	36	66.8	0.00	T.	Rockport				1.10	
Petroskey	75	27	48.9	3.80	4.0	Leakeeville	100	31	69.1	0.12	T.	Rolla				1.13	
Plymouth	80 <sup>c</sup>					Louisville	93	32	66.0	T.	St. Charles	85	30	59.7	0.48		
Powers	78	22	46.6	3.20	T.	Patmos				0.09	T.	St. Joseph				2.02	
Reed City	78	22	46.6	3.20	T.	Pearlington	97 <sup>t</sup>	40 <sup>t</sup>	69.4 <sup>t</sup>	1.97	T.	Sarcocie				0.49	
Roscommon	70 <sup>b</sup>			1.57	0.5	Pecan	97	36	72.0	1.20	T.	Sedalia	83	28	57.8	0.77	
Saginaw (W. S.)	80	24	48.6	2.02	T.	Pittsburg	92	32	63.6	0.23	T.	Seymour	85	27	56.9	0.66	
St. Ignace	72	28	46.2	1.15	T.	Pontotoc	87	32	63.4	T.	Sikeston	85	28	58.0	1.07		
St. Johns	80																

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Montana—Cont'd.</i>																	
Crow Agency	83	19	50.0	0.65	Ins.	Hebron	83	26	55.9	1.66	Ins.	Nevada—Cont'd.	77	24	49.5	1.08	Ins.
Culbertson	83	13	45.8	0.19		Hickman				1.27		Reno State University	82	17	45.4	0.86	T.
Dayton	78	20	44.2	0.64		Holbrook	86	25	55.4	3.43	2.0	San Jacinto	80	9	42.8	1.29	
Decker	88	10	49.4	0.30		Holly				0.95		Tecoma	68	33	43.8	0.27	T.
Deerlodge	73	16	43.8			Holdrege	86	28	52.8	1.89		Toano *	76	11	45.2	0.60	
Dillon	75	19	46.0	0.31		Hooper *1	86	18	52.0	2.03		Wabuska	84	22	52.0		
Forsyth	84	16	49.8	T.		Imperial	86			1.26		Wadsworth	59	24	40.7	1.65	
Fort Benton				0.09		Johnstown						Wood				0.66	
Fort Harrison	73	22	48.3			Kearney	89	27	56.2	3.86	2.0	<i>New Hampshire.</i>					
Glasgow	80	16	43.0	0.22		Lodopole						Alstead	68	19	44.8	2.08	0.5
Glenive	85	20	46.0	T.		Loup	85	24	53.0	4.63	1.0	Bethel Mills	70	12	43.2	0.62	T.
Grayling	68	9	39.2	1.12	1.0	Lynch	95	19	56.0	3.40		Bethlehem	66	14	42.6	2.88	3.0
Greatfalls	80	28	50.6	0.44		Mccook				2.60		Bretton Woods				3.72	
Hamilton	79	27	49.0	1.29	T.	McCool						Brookline *1	70	18	46.6	1.24	T.
Lame Deer	85	19	52.4	0.70	4.0	Lockridge	87	26	55.2	2.90		Chatham	72	11	42.0	3.10	T.
Livingston	79	28	52.0	0.20	T.	Lodgepole				1.85		Durham	72	19	45.5	2.35	T.
Lewistown	80	17	48.3	T.	Loup	85	24	53.0	4.63		Franklin Falls	71	19	45.2	1.83	0.2	
Lodge Grass	82	17	49.0	0.48		Lynch	95	19	56.0	3.40		Grafton	68	15	42.6	2.22	1.0
Martinsdale	254	48.1 <sup>d</sup>	40.40			McCook						Hanover	71	16	43.8	2.40	1.0
Marysville	72	22	44.9*	0.07	0.5	Madison	85	24	51.5*	3.05	4.0	Jefferson Highland				2.60	
Missoula	80	24	48.8	0.68		Marquette						Keene	74	15	45.4	1.95	0.2
Ovando	79	11	44.2	0.11	0.5	Mason				4.68		Littleton	66	16	41.4	2.81	3.0
Parrot	77	22	49.4	0.22		Merriman						Nashua	73	21	47.0	0.94	T.
Philipsburg	78	21	48.0	0.53		Minden	87	22	54.4	4.64		Newton	74	15	45.8	1.25	T.
Plains	81	27	47.8	0.56		Nebraska City	89	26	56.8	1.95		North Woodstock				2.41	
Poplar	84	20	48.6	0.75		Nemaha						Plymouth	67	19	44.2	3.04	
Red Lodge	75	15	46.5	0.97		Norfolk	90	24	53.8	4.04		Stratford	68	13	42.7	1.89	1.5
St. Pauls	85 <sup>1</sup>	20 <sup>1</sup>	54.6 <sup>1</sup>	0.50	T.	North Loup	90	25	54.3	4.92		<i>New Jersey.</i>					
St. Peter	78	22	49.8	0.66	3.0	Oakdale	86	21	51.6	5.26		Asbury Park	82	30	53.5	2.99	
Springbrook	83	13	49.2	0.04	T.	Odell				2.27		Bayonne	80	26	52.4	3.45	
Toston	80	19	49.8	T.	O'Neill	90	25	53.2			Belvidere	83	22	50.6	4.42		
Townsend				0.00		Ord						Bergen Point	79	28	52.2	3.88	
Troy	82	23	46.4	0.97		Osceola				4.80		Beverly	87	25	53.4	3.72	
Twin Bridges	83	13	46.8	T.	Seward	86	28	55.2	1.58		Blairstown	79	20	49.4	3.56		
Utica	78	24	50.6	0.54		Republican				3.66		Bridgeton	88	28	55.0	3.25	
Wolf Creek	75	24	48.7	0.16	0.2	St. Libby						Canton				2.92	
Yale	79	20	48.8	T.	St. Paul	89	22	55.0	2.87		Cape May C. H.	84	26	54.3	1.67		
<i>Nebraska.</i>						Santee	90	25	54.6	4.28		Charlottesville	78	18	47.8	5.60	
Agate	78	12	47.6	0.48	T.	Schuyler						Clayton	86	23	52.2	3.55	
Agree *1	82	24	51.1	3.47		Seuec				2.45		College Farm	81	24	51.5	5.78	
Albion	85 <sup>e</sup>	16 <sup>e</sup>	51.8 <sup>e</sup>	4.16		Seward	86	28	55.2	1.76		Dover	78	22	47.7	5.23	
Alma	90	23	56.0	5.30		Smithfield						Elizabeth				5.65	
Ansley	87	22	53.9	3.98	1.0	Springview	85	23	54.4	1.91		Englewood	79	25	49.6	2.91	
Arapaho				4.50		Stanton	84	23	53.0	2.34		Flemington	83	25	51.4	5.29	
Ashland a	87	27	56.6	1.44		Strang				3.35		Friesburg	86	25	53.0	3.53	
Ashland b				1.40		Stratton						Hightstown	80	27	52.4	3.84	
Auburn	89	24	57.2	3.07		Stromsburg				2.13		Imlaystown	82	26	53.2	3.25	
Aurora	88 <sup>f</sup>	26 <sup>f</sup>	54.2 <sup>f</sup>	4.16		Superior	87	25	54.8	1.20		Indian Mills	88	23	52.9	3.39	
Bartley	89	21	56.0	2.17		Tahlequah				2.71		Lakewood	85	25	52.1	2.48	
Beatrice	89	26	58.0	3.28		Tecumseh b				3.16		Lambertville	82	24	51.7	7.01	
Beaver	89	25	57.2	3.83		Tecumseh c						Layton	79	15	47.1	4.05	
Bellevue				0.85		Teekanah	90	26	55.6	2.05		Moorestown	84	25	52.6	4.00	
Bethany				1.37		Turlington	88	27	56.6	0.98		Newark	79	27	51.4	4.16	
Blair	86	25	53.9	2.02		University Farm	87	26	57.0	1.53		New Brunswick	82	21	53.4	5.21	
Bluehill				3.06		Wahoo				2.78		Paterson	82	27	52.8	4.39	
Bradshaw				6.08		Wakefield	86	20	52.6	3.10		Phillipsburg	81	24	50.8	3.30	
Bridgeport	83	13	50.8			Wauneta				2.72		Plainfield	80	25	50.3	5.05	
Broken Bow	87	21	54.2	3.92		Weeping Water						Pleasantville				2.31	
Burchard				5.08		Westpoint	90	27	54.6	2.18		Rancocas				4.44	
Burge				0.74		Whitman						Rivervale	75	18	46.8	3.75	
Burwell				5.51		Wilber				1.22		Sandy Hook	79	32	54.0	3.14	
Central City				3.61		Wilsonville				2.78		Somerville	80	22	50.4	4.84	
Chester				1.87		Wishner				1.20		South Orange	77	26	50.2	4.27	
Cody				0.30		Wymore				1.62		Sussex	77	20	49.8	3.91	
Columbus	88	26	54.2	2.96			90	24	55.2	1.55		Trenton	81	30	54.8	3.75	
Crawford				0.65			68	21	45.2	0.67		Tuckerton	86	21	51.6	2.04	
Crete	86	21	53.2	1.76			69	35	53.3	1.20		Vineland	89	24	52.6	2.76	
Culbertson	88	22	56.2	1.41			71	21	55.5	0.31		Woodstown				3.26	
Curtis	83	21	53.0	2.41			73	26	49.2	1.78		<i>New Mexico.</i>					
David City	83	28	54.6	2.47			76	26	48.6			Alanagordo	92	33	60.0	2.38	
Dawson	89	25	58.0	2.18			76	18	48.6	0.93		Albert	86	32	58.7	1.30	
Duff				2.40			78	19	48.8	0.71		Albuquerque				0.17	
Dunning				3.50			78	19	48.8	0.71		Almara	86	20	58.6	3.18	
Edgar				4.72			79	19	48.8	0.71		Arabela	78	21	53.3	5.90	
Ericson				4.70			79	19	48.8	0.71		Bellranch	88	21	52.0	0.69	
Ewing				4.85			79	19	48.8	0.71		Bloomfield	83	24	52.0	1.01	
Fairbury	89	20	55.5	0.92			79	19	48.8	0.71		Carlsbad	96	33	63.6*	1.71	
Fairmont	85	21	54.2	3.34			79	19	48.8	0.71		Cimarron	76	21	50.4	0.57	
Fort Robinson	80	18	49.4	0.46	T.		79	19	48.8	0.71		Cloudcroft	60	19	41.6	4.37	8.0
Franklin	88	25	55.6	3.17	T.		79	19	48.8	0.71		Deming	82	31	57.4	2.80	
Fremont	90	26	54.8	1.54			79	19	48.8	0.71		Dorse	80	24	50.8	0.54	
Fullerton				3.18			79	19	48.8	0.71		Eagle Rock Ranch	72	18	48.6	0.64	</

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature, (Fahrenheit.)			Precipitation.		Stations.	Temperature, (Fahrenheit.)			Precipitation.		Stations.	Temperature, (Fahrenheit.)			Precipitation.													
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.												
New Mexico—Cont'd.	°	°	°	Ins.	Ins.	New York—Cont'd.	°	°	°	Ins.	Ins.	North Dakota—Cont'd.	°	°	°	Ins.	Ins.												
Raton	73	23	51.8	0.60	1.0	Ridgeway	75	24	48.5	2.26	T.	Edgeley	84	21	47.9	1.01													
Rociada	72	21	47.4	1.39	T.	Ripley	76	30	50.2	4.63	T.	Ellendale	78	22	46.6	0.60													
Roswell	84	29	58.4	2.67		Rome	80	20	46.4	3.75	T.	Fargo	72	21	45.9	2.30													
San Marcial	87	30	59.2	0.50		Romulus	81	21	48.7	2.31	0.5	Forman	80	22	48.4	2.41													
San Rafael	77	20	49.2	1.18		Salisbury Mills	70	13	41.0	4.90	3.2	Fort Berthold	82	10	46.7	0.40													
Socorro	79	32	56.4	1.92		Saranac Lake	70	13	41.0	4.90		Fort Yates	86	25	51.0	0.69													
Springer	77	22	52.6	0.05		Saratoga Springs	72	19	46.4	3.46		Fullerton	82	18	47.7	1.26	T.												
Strauss				2.31		Scarsdale	78	21	48.1	1.59	T.	Glenullin	85 <sup>b</sup>	21 <sup>b</sup>	47.4 <sup>b</sup>	T.													
Taos	79	20	51.0	1.26		Scottsville						Hamilton	69	15	43.8	1.20	1.3												
Vermejo	71	18	45.0	1.42	6.5	Setauket	76	32	52.0	3.10		Jamestown	80	22	48.0	1.21													
New York.																													
Adams	82	15	48.8	1.57	T.	Skaneateles						Lamoure	71	17	46.6	1.36													
Addison				2.46		Southampton	74	28	51.4	2.29		Larimore	71	17	46.6	1.25													
Akron				2.75	T.	South Butler	82	26	47.5	2.29		Lisbon	77	18	47.2	2.07													
Alden	77	22	48.2	3.45	T.	South Canisteo	79	16	47.3	2.46	0.5	McKinney	73	18	44.4	0.20													
Ames	78	15	47.2	3.45	T.	Southeast Reservoir						Manfred	72	12	45.6	1.57													
Amsterdam	78	18	46.8	3.40	1.2	South Kortright	77	15	44.8	4.61	T.	Mayville	77	20	49.1	2.71													
Appleton	78	21	48.3	2.17		South Schroon	72	16	42.5	3.24	0.5	Medora	82	19	45.8	0.29	0.2												
Arcade	75	20	46.8	3.12	T.	Spier Falls	72	19	47.4	3.01	T.	Melville	78 <sup>b</sup>	18 <sup>b</sup>	48.2 <sup>b</sup>	0.92													
Athens	73	24	48.8	3.83	T.	Straits Corners	80 <sup>b</sup>	12 <sup>b</sup>	46.7 <sup>b</sup>	.....	1.0	Milton	67	20	44.8	1.56													
Atlanta	74	15	47.0	2.79	T.	Ticonderoga	67	20	45.2	2.35	T.	Minneaukon	72	20	46.8	2.16													
Atwater				3.63	T.	Volusia	78	23	48.2	4.03	T.	Minot	76	25	47.9	T.													
Auburn	80	19	48.0	2.82	T.	Wappinger Falls	75	22	47.3	4.12		Minuto	69	14	43.7	0.87	T.												
Avon	77	14	46.5	1.56		Warwick						Napoleon	83	18	47.4	0.45													
Baldwinsville	78	21	47.4	2.83	T.	Watertown	75	21	46.2	3.96	T.	New England	82	16	48.1	T.													
Ballston Lake	70	18	46.2	3.41	T.	Waverly	83	15	47.5	2.08	T.	Oakdale	79	24	48.7	0.20	T.												
Bedford	75	22	49.0	2.11		Wedgewood	78	19	45.7	2.02	T.	Pembina	71	18	43.8	0.69	T.												
Berlin	72	19	45.8	3.50	T.	Wells	73	15	43.7	5.46	T.	Portal	68	18	42.3	1.06													
Blue Mountain Lake				4.71	1.0	West Berne	84 <sup>b</sup>	17	45.0 <sup>b</sup>	3.68	2.0	Power	76	19	47.0	1.62													
Bolivar	80	12	46.4	2.74	T.	Westfield	77	26	49.8	3.91	T.	Rolla	71	19	43.9	0.82	T.												
Bouckville	79	18	45.6	3.06	2.0	Windham	78	16	45.6	3.73	T.	Rugby	70	18	44.6	0.21													
Boys Corners				4.00		Youngstown						Sentinel Butte	81	21	48.2	0.30	T.												
Brockport	76	22	48.4	1.87		North Carolina.																							
Caldwell	69	21	45.2	3.44	T.	Brevard	85	18	53.2	0.00		Steele	79	22	46.8	0.60													
Cape Vincent	69	24	46.6	2.65		Brewers	90	20	56.0	0.03		University	69	21	46.9	2.49													
Carmel	71	23	47.2	3.64		Bryson City						Wahpeton	75	29	49.8	1.13	T.												
Carvers Falls	75	18	45.2	2.88		Currituck						Walhalla	67	18	44.2	1.52	T.												
Chatham	71	20	47.6	3.50	T.	Eagletown	86	33	57.7	1.90		Westhope	72	20	45.0	0.12													
Chazy	70	18	44.8	3.65	T.	Edenton	82	34	57.2	1.90		Willow City	74	16	44.0	T.													
Cooperstown	75	19	44.2	3.49	0.5	Fayetteville	89	35	60.1	2.97		Wishie	79	20	46.2	0.58													
Cortland	79	19	47.0	3.29	0.3	Goldsboro	86	36	58.8	2.09		Ohio.																	
Cutchogue	77	29	52.6	2.69		Graham						Akron	81	22	50.6	1.24													
Danboro				2.10	T.	Greensboro	90	30	57.8	1.02		Amesville	89	19	53.6	1.46	T.												
DeKalb Junction	75	19	45.2	2.70	4.0	Henderson	85	32	57.4	2.60		Atwater																	
De Ruyter	79	16	46.0	3.20	2.0	Hendersonville	84	20	53.8	0.01		Bangorville	81	28	51.3	1.65	T.												
Easton				5.43	T.	Henrietta	92	26	59.5	0.07		Bellefontaine	82	27	51.8	0.99	T.												
Elba	74	22	47.5	2.22	T.	Horse Cove	80	28	55.3	0.05		Benton Ridge	81	22	51.4	1.70	T.												
Elmira	80	18	48.8	2.01		Hot Springs	82	29	59.3	.....		Bowling Green	81	21	50.6	1.52													
Faust	69	14	40.5	3.84	0.2	Jefferson	81	17	51.8	T.		Bucyrus	84	22	51.4	1.61													
Fayetteville	82	20	47.6	2.80	T.	Kinston	86	33	59.7	1.73		Cadiz	82	27	52.8	3.10	T.												
Fort Plain	78	23	47.9	2.89	T.	Kittayhawk	82	48	63.4	0.59		Cambridge	86	21	54.4	2.83													
Franklinville	77	17	46.4	6.11	T.	Lexington	90	22	55.9	T.		Canal Dover	82	22	50.4	1.81													
Gabriels	71	8	40.7	5.34	0.7	Lincolnton	81	22	54.6	.....		Canton	80	23	48.6	1.17	T.												
Gansevoort				3.84		Liuville	75	14	46.4	0.00		Cardington	82	20	50.0	2.13													
Glens Falls	70	18	45.8	3.33	0.5	Littleton	88 <sup>b</sup>	30 <sup>b</sup>	53.8 <sup>b</sup>	2.22		Chillicothe	87	22	53.2	1.48													
Gloversville	70	18	44.5	3.40	T.	Louisburg	86	32	57.2	2.47		Circleville	86	25	53.8	1.58													
Greenwich	69 <sup>b</sup>	20 <sup>b</sup>	46.6 <sup>b</sup>	3.73		Lumberton	90	33	60.5	2.96		Clarington	89	26	55.0	1.88	T.												
Griffith Corners	76	12	43.8	4.36	T.	Monroe	90	29	58.0	2.71		Clarksville	86	25	55.4	1.29													
Harkness	73	16	44.1	3.60	1.0	Moneure	90	29	58.0	2.71		Cleveland a	79	27	51.7	1.45	T.												
Haskinville				2.47		Morganant	86	24	56.3	0.92		Cleveland b	80	27	49.8	1.13	T.												
Hemlock	76	21	47.6	1.92		Mount airy	89	20	55.8	0.13		Clifton	85	25	54.2	1.02													
Homer	80	16	45.3	3.01	T.	Mout Holly						Coatton	88	19	54.0	0.54													
Hunt.	80	14	46.9	2.50	T.	Murphy						Dayton a																	
Indian Lake	77	10	41.7	4.25	0.3	Nashville	90	30	58.5	2.12		Dayton b	86	24	53.6	1.23													
Ithaca	81	19	47.2	2.71	0.6	Newbern	89	36	62.2	1.59		Defiance	80	22	51.6	1.68	T.												
Jamesstown	80	17	48.3	3.53	T.	Pantego	82	22	52.6	0.00		Delaware	87	20	51.2	2.26	T.												
Jeffersonville	80	17	45.8	2.68	T.	Patterson	80	34	60.6	3.73		Demos	84	28	54.0	2.32	T.												
Keene Valley	73	13	43.8	3.14	1.0	Pinehurst	90	28	60.0	2.44		Elyria	82	24	49.8	T.													
Lake George	69	20	45.3	3.45	T.	Reidsville	88	30	58.6	0.92		Frankfort	87	22	54.5	0.81													
Lenox				2.97		Rockingham	89 <sup>b</sup>	33 <sup>b</sup>	59.3 <sup>b</sup>	4.80		Garretttsville	82	23	52.2	1.23	T.												
Le Roy	75	22	47.4	1.87	T.	Salem	89	24	56.0	0.44		Gratiot	82	23	52.0	1.53	T.												
Liberty	75	20	45.2	4.14		Salisbury	92	23	57.2	1.42		Green	86	26	54.6	0.25													
Littlefalls, City Res.	76	22	45.9	3.48	2.0	Saxon	90	22	55.2	0.33		Greenfield	83	29	54.3	0.92													
Lockport	76	21	48.7	1.81		Scotland Neck	86	35	58.8	1.97		Greenhill	84	16	48.7	1.79	T.												
Lowville	75																												

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Ohio—Cont'd.</i>	°	°	°	Ins.	Ins.	<i>Oregon—Cont'd.</i>	°	°	°	Ins.	8.0	<i>Pennsylvania—Cont'd.</i>	°	°	°	Ins.	Ins.
New Bremen	83	24	52.0	1.54		Gardiner	78	40	55.4	4.53		Milford	78	18	47.4	4.56	
New Richmond	85	27	56.6	0.54		Glendale	90	34	58.1	3.32		Montrose	78	15	45.8	4.26	T.
New Waterford	82	18	48.9	0.95	T.	Glenora	77	30	51.8	7.14		New Germantown	86	18	51.5	2.35	
North Lewisburg	82	24	51.6	1.15		Gold Beach	79	34	54.0	8.17		Oil City			1.64		
North Royalton	80	28	51.0	1.27		Government Camp	74	29	47.8	4.65		Ottsville			4.50		
Oberlin	81	20	50.8	1.59		Grants Pass	93	32	55.6	2.29		Parker			2.18		
Ohio State University	84	23	52.2	1.37		Grass Valley	85	28	49.4	1.11		Philadelphia	83	31	54.8	4.03	
Orangeville	81	15	49.2	1.23	T.	Hepner	82	32	52.0	0.97		Pocono Lake	73	15	44.4	3.66	
Ottawa	80	22	51.4	1.82		Hood River	82	35	53.9	2.02		Point Pleasant			4.67		
Pataskala	84	23	52.5	1.94		Huntington	83	27	52.4	0.91		Pottsville			3.45		
Philo	84	27	54.4	2.38		Jacksonville	88	32	56.4	2.09		Quakertown	81	22	51.0	3.82	
Plattsburgh	83	28	53.1	2.14	T.	John Day	89	29	52.8	1.24		Reading	82	23	52.1	3.67	
Portsmouth a.	86	25	55.7	0.28		Joseph	78	28	49.6	1.93		Saugertown	83	15	49.0	3.15	T.
Portsmouth b.	86	25	55.7	0.28		Kerby	90	30	54.8	5.13		St. Marys	75	18	47.6	3.10	
Pulse	84	25	54.7	0.92		Klamath Falls	86	17	49.7	1.65		Salisbury			2.24		
Rittman	82	18	49.8	1.01	T.	Lagrange	84	29	51.1	2.02		Seisbholtzville			4.62		
Rockyridge	81	23	52.2	1.18	T.	Lakeview	80	20	48.2	1.43		Selinsgrove	80	20	52.0	2.40	T.
Shenandoah	80	20	49.6	1.15		Lonerock	86	29	51.5	1.15		Shawmont			4.37		
Sidney	85	23	53.1	0.78		McKenzie Bridge	88	28	53.1	4.43		Skidmore	81 <sup>c</sup>	21 <sup>c</sup>	51.2 <sup>c</sup>	1.77	T.
Somerset	83	29	54.2	2.56	T.	McMinnville	83	35	54.9	2.11		Smiths Corners	78	12	47.5	3.95	
South Lorain	83	18	50.6	1.41		Meacham			1.67			Somerset	79	20	49.6	1.91	T.
Springfield				1.84	T.	Monroe	81	37	55.6	2.91		South Eatou	80	21	48.6	3.54	
Thurman	92	22	57.6	0.78	T.	Mount Angel	84	41	57.2	2.87		Springmount			3.78		
Tiffin	80	26	51.2	1.40		Nehalem			5.38			State College	79	24	50.2	2.18	
Upper Sandusky	82	20	52.3	1.94	T.	Newport	78	42	54.8	4.48		Swarthmore	83	26	52.4	4.17	
Urbana	85	24	52.0	2.41		Ontario			0.55			Towanda	81	17	48.2	3.18	
Vickery	81	20	50.9	1.38		Pendleton	86	28	52.2	1.04		Troutrun			1.80		
Warren	82 <sup>d</sup>	25	50.6	1.42	T.	Pine	83	23	49.0	1.57		Uniontown			85		
Wauseon	79	23	49.4	1.70	T.	Prineville	81	25	49.6	0.67		Warren	78	18	48.6	2.38	T.
Waverly	88	22	55.1	0.61		Riverside	86	20	50.0	0.98		Wellshoro	77 <sup>a</sup>	18 <sup>b</sup>	48.1 <sup>c</sup>	5.47	
Waynesville	84	25	53.1	1.70		Salem	80	40	55.2	2.82		Westchester	84	27	53.0	1.58	
Wellington	82	20	51.1	1.49		Silverlake	81	10	44.4	0.56		West Newton	79	22	40.0	3.68	
Willoughby				1.24	T.	Sparta	80	30	51.4	1.30		Wilkesbarre			2.24	T.	
Wilson	86	20 <sup>e</sup>	53.8	0.89		Stafford	84	37	55.3	3.16		Williamsport	83	23	51.0	2.24	
Wooster	83	19	50.4	0.87	T.	The Dalles	84	34	54.3	1.44		Rhode Island					
Zanesville				2.96		Toledo	84	34	55.2	5.34		Bristol	67	26	50.5	1.68	
<i>Oklahoma</i>						Umatilla	87	32	55.5	0.60		Kingston	73	20	48.2	2.30	
Alva	95	27	64.8	0.51		Vale	84	20	49.8	1.31		Pawtucket	76	26	49.2	2.67	T.
Arapaho	99	30	63.8	0.92		Wallowa	81	24	49.8	1.65		Providence a.	75	26	50.5	2.11	
Beaver	91	25	59.8	0.55		Wamic	85	28	54.4	1.41		Providence c.	76	24	49.4	2.30	
Binger	95	24	62.3	0.43		Warm Spring	90	28	53.2	0.85		<i>South Carolina</i>					
Blackburn	88	23	61.0	0.56		Weston	89	24	50.4	2.10		Aiken	95	37	67.5	T.	
Chandler	91	28	62.8	0.86		Williams	92	27	54.8	1.38		Allendale	88	40	66.2	1.27	
Cleo	95	20	62.6			Pennsylvania						Andereson	95	35	65.2	0.24	
Cloud Chief	90	21	62.6	1.00		Aleppo	86	19	53.2	1.39		Barksdale	85	33	62.6	0.62	
Enid	94	25	63.0	1.22		Altoona	83	19	49.4	1.43		Batesburg	92	34	65.3	0.66	
Erick	100	23	62.6	0.57		Beaufort			1.54			Beaufort	86	44	67.4	1.00	
Fort Reno	93	33	62.5	1.75		Beckley						Bennettsville	90	32	62.4	0.90	
Fort Sill	90	35	64.0	T.	Brookville						Blackville	93	34	64.5	0.68		
Frederick	93	40	66.9	0.00		Browers						Bowman	92	30	63.0	0.43	
Gage	93	24	61.1	0.77		California	87	24	55.2	1.46		Calhoun Falls			0.52		
Guthrie	89	33	63.8	0.20		Cassandra	78	20	47.3	1.87		Camden			1.40		
Harrington	93	28	61.4	0.90		Clarion			1.70			Cheraw a	90	34	59.6	2.26	
Hennessey	96	32	65.6	1.27		Claysville	84	19	52.3	1.80		Cheraw b			2.40		
Hobart	96	32	64.0	0.99		Coatsville	87	22	52.0	6.18		Clarks Hill	98	35	63.4	0.16	
Jefferson	88	25	61.0	1.03		Coufluence			1.53			Clemson College	90	27	60.6	0.00	
Jenkins	95	25	62.4	0.36		Coudersport	77	14	46.2	2.48		Conway	86	36	62.4	2.30	
Keaton	84	24	56.6	0.40		Davis Island Dam			1.48			Darlington	90	31	63.0	1.02	
Kingfisher	94	29	64.1	0.66		Derry	86	19	52.8	2.66		Dillon	90	35	61.7	3.01	
McComb	90	30	63.0	1.72		Doylestown			5.59			Duewest	88	37	63.3	0.60	
Mangum	98	35	66.5	1.05		Dushore	78	15	45.6	2.15		Edisto			0.34		
Meeker	90	27	61.8	1.17		East Bloomsburg			3.24			Effingham			1.19		
Newkirk	90	31	63.4	0.41		East Mauch Chunk	79	20	49.8	4.49		Florence	90	31	61.4	1.26	
Norman	94	28	64.6	0.15		Easton	78	25	50.4	3.57		Gaffney	94	28	60.4	0.04	
Okeene				1.10		Ellwood Junction			1.68			Georgetown	83	40	64.3	2.85	
Perry	98	28	64.0	0.28		Emporium	79	20	48.3	2.08		Greenville	86	26	56.8	T.	
Shawnee	91	32	64.4	1.32		Ephrata	85	21	51.6	2.92		Greenwood	88	33	60.6	0.40	
Stillwater	90	27	62.0	0.13		Everett	84	18	48.5	1.67		Heath Springs	89	31	59.5	1.36	
Taloga	86	22	59.4	0.85		Forks of Neshaminy			7.11			Kingtree a.	87	36	63.2	2.19	
Temple	93	30	64.9	0.32		Franklin	84	16	51.2	1.28		Kingtree b.			1.65		
Waupomis	99	31	65.7	1.05		Freeport	88	21	52.8	1.77		Liberty	89	28	60.8	T.	
Weatherford	96	28	61.0	1.23		Gettysburg	84	28	53.4	4.42		Little Mountain	91	35	62.0	0.77	
Whiteagle	89	27	62.6	0.20		Girardville	85	23	52.8	2.84		Newberry	90	30	61.2	0.37	
Oregon.				2.62		Gordon	79	15	46.4	3.80		Pelzer			0.90		
Alpha	85	35	56.6	4.85		Greensboro			1.36			Pinopolis*1	82	40	63.0	2.84	
Arlington	86	32	55.0	0.50		Greenville	81	19	49.9	1.37		St. Georges	87	37	63.6	0.17	
Ashland	86	31	55.0	1.68		Hamburg	88	23	51.0	3.56		St. Matthews	86	38	62.8	0.25	
Astoria	70	44	56.4	3.57		Hanover	87	23	52.6	..		St. Stephens	81	27 <sup>a</sup>	60.6	1.63	
Aurora (near)	80	36	53.6	2.16		Herr's Island Dam			1.93			Saluda	91 <sup>b&lt;/sup</sup>				

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion.				
	Maximum.	Minimum.	Mean.			Rain and melted snow.	Total depth of snow.	Maximum.			Minimum.	Mean.	Rain and melted snow.	Total depth of snow.				
<i>South Dakota—Cont'd.</i>	°	°	°	Ins.	<i>Tennessee—Cont'd.</i>	°	°	°	Ins.	<i>Texas—Cont'd.</i>	°	°	°	Ins.	°	°	°	Ins.
Alexandria	80	21	52.3	2.15	McMinnville	86	26	58.2	1.35	Liberty	°	°	°	Ins.	1.70	1.70	1.70	Ins.
Armour	89	23	54.8	2.30	Maryville	87	27	59.0	0.41	Llano	94	42	68.1	4.80				
Ashcroft	88	18	46.6	0.63	Milan	86	29	58.2	1.35	Longview	95	40	66.6	0.22				
Bowdle	77	21	50.4	0.25	Monterey	81	.....	.....	0.30	Luling	91	47	70.2	3.46				
Brookings	80	17	49.2	3.15	Mountain City	74	20	50.0	0.13	McKinney	98	39	67.1	4.11				
Canton	86	21	52.4	4.96	Nunnelly	90	24	58.2	1.81	Marlin	100	42	70.4	4.40				
Cavite	89	19	53.8	0.77	Palmetto	87	30	59.1	2.03	Menardville	93	28	64.2	2.62				
Centerville	.....	.....	4.62	.....	Pope	85 <sup>1</sup>	26	57.6	2.22	Mexia	97	44	70.0	3.32				
Chamberlain	88	26	56.4	0.94	Rogersville	86	25	57.6	0.24	Midland	88	30	63.2	0.62				
Cheyenne	81	22	53.0	0.20	Rugby	87	20	54.8	0.69	Mount Blanco	90	29	61.2	1.06				
Clark	75	19	50.2	1.25	Savannah	90	28	61.7	0.63	Nacogdoches	95	37	68.4	0.33				
Clear Lake	75	23	49.0	1.33	Seawanee	82	32	59.0	0.83	New Braunfels	90	45	70.0	2.84				
DeSmet	85	19	48.9	3.47	Springdale	85	21	55.8	0.30	Orange	.....	.....	1.90	.....				
Doland	80	19	52.0	1.46	Springfield	88	24	57.6	0.59	Panter	.....	.....	6.78	.....				
Elkpoint	89	24	53.8	4.40	Tazewell	.....	.....	0.35	.....	Paris	98	34	66.8	1.25				
Fairfax	87	22	54.1	2.51	Tellico Plains	90	25	58.4	T.	Pearson	94	47	72.5	1.65				
Farmington	.....	.....	0.53	Tracy City	88	24	55.0	0.83	Pierce	96	44	71.9	4.56					
Faulkton	78	24	51.0	0.30	Trenton	88	26 <sup>1</sup>	59.6	1.26	Port Lavaca	94	46	73.0	6.53				
Flandreau	80	22	49.4	2.89	Tullahoma	86	27	57.6	1.63	Rhineland	92	38	65.0	0.68				
Forestburg	86	20	52.5	2.68	Walling	.....	.....	0.51	.....	Riverside	.....	.....	1.73	.....				
Fort Meade	86	21	51.4	1.86	Waynesboro	92	26	60.2	0.59	Rock Island	.....	.....	5.37	.....				
Gann Valley	87	25	52.6	1.25	Wildersville	83	31	58.2	2.90	Rockland	95	54	75.6	1.78				
Grand River School	86	22	51.4	0.86	Yukon	87	34	61.2	0.89	Rockport	88	58	73.2	6.05				
Greenwood	91	28	56.6	3.01	.....	.....	.....	.....	Runge	97	47	72.8	3.12					
Herreid	83	20	50.4	0.40	.....	.....	.....	.....	Sabinal	91	41	69.7	1.85					
Highmore	84	22	53.2	0.60	.....	.....	.....	.....	San Marcos	93	42	69.4	3.43					
Hoch City	87	21	54.4	0.53	.....	.....	.....	.....	San Saba	93	35	66.3	5.43					
Howard	81	21	52.0	2.30	.....	.....	.....	.....	Santa Gertrudes Ranch	.....	.....	5.07	.....					
Howell	85	21	51.2	0.48	Albany	98	38	68.5	1.34	Sherman	92	43	66.7	3.48				
Ipswich	78	19	49.2	0.84	Alvin	.....	.....	1.44	.....	Sonora	89	29	65.3	2.86				
Kidder	81	18	49.1	0.54	Arthur	100	34	69.8	1.00	Sugarland	92	41	71.0	1.60				
Kimball	85	21	51.2	1.54	Athens	93	46	70.9	4.01	Sulphur Springs	97	40	68.0	1.54				
Leola	93	19	50.8	0.50	Austin	92	34	66.3	1.41	Temple a	94	42	68.2	3.70				
Leslie	90	18	54.6	0.34	Ballinger	92	34	66.3	3.25	Temple b	96	41	68.0	3.60				
Marion	85	22	53.0	2.65	Beaumont	.....	.....	.....	.....	Texline	82	25	54.3	0.17				
Mellette	82	22	51.1	0.53	Beeville	96	48	73.2	2.51	Tilden	99	39	74.8	1.66				
Menno	87	23	53.8	3.92	Blanco	93 <sup>b</sup>	31 <sup>b</sup>	63.6 <sup>b</sup>	0.50	Trinity	102	39	71.0	2.18				
Millbank	80	23	49.2	2.54	Blaneo	93	36	67.2	2.69	Tulia	86	24	58.0	1.18				
Mitchell	88	24	53.3	2.33	Bowie	98	36	67.6	3.29	Tyler	.....	.....	1.98	.....				
Oelrichs	77	19	46.8	1.30	Brazoria	92	41	72.3	3.16	Victoria	95	47	72.4	4.95				
On-the-Trees Camp	84	21	52.0	0.45	Brenham	95	47	71.3	2.00	Waco	99	43	71.9	6.43				
Pine Ridge	80	19	48.2	.....	Brighton	89	47	74.0	8.29	Waxahachie	102	37	67.4	4.72				
Plankinton	85 <sup>b</sup>	23	53.4 <sup>b</sup>	2.34	Brownwood	98	36	70.2	0.81	Weatherford	97	38	67.6	7.73				
Ramsey	82	19	51.2	3.72	Burnet	95	40	69.3	3.63	Wharton	97	41	71.4	3.29				
Redfield	83	21	50.8	0.60	Childress	94	32	63.6	0.85	Wichita Falls	.....	.....	0.60	.....				
Rosebud	75	25	47.7	T.	Clarendon	90	27	60.7	1.85	Utah	.....	.....	.....	.....				
Silver City	.....	.....	0.72	Claytonville	91	33	64.4	2.91	Alpine	.....	.....	1.72	.....					
Sioux Falls	84	24	53.2	3.32	Coleman	98	42	71.6	2.93	Aneth	85	27	53.5	0.50				
Sisseton Agency	76	23	48.6	1.78	College	100	46	73.0	3.07	Beaver	80 <sup>c</sup>	14 <sup>c</sup>	55.0 <sup>c</sup>	0.67				
Spearfish	81	25	53.0	2.77	Colorado	91	32	65.2	1.93	Blackrock	79	16	46.0	0.65				
Stephan	86	18	53.0	0.01	Columbia	90	40	70.8	2.25	Callao	83	15	49.0	0.76				
Tyndall	89	20	54.4	4.71	Columbus	.....	.....	3.80	.....	Castle Dale	79	14	45.6	1.35				
Vermillion	89	23	53.6	6.67	Comanche	.....	.....	6.14	.....	Castle Rock	.....	.....	1.03	.....				
Watertown	76	22	48.6	2.24	Comstock	88	40	70.4	1.11	Cisco	78	22	51.0	0.47				
Wentworth	87	23	51.3	3.79	Corsicana	98	44	71.0	3.29	Corinne	85	27	52.6	0.80				
Wolsey	.....	.....	1.51	Crockett	100	38	71.0	0.67	Coyote	70	7	40.5	0.10					
Andersonville	85	23	57.3	0.12	Cuero	92	46	71.2	4.25	Desert	82	10	46.8	0.32				
Arlington	87	29	59.2	0.40	Dallas	99	40	68.0	4.36	Emery	58	20	39.0	0.75				
Ashwood	88	28	59.2	1.79	Danevang	96	43	72.2	6.10	Escalante	87	24	49.6	0.46				
Beeton	88	25	58.2	0.05	Decatur	99	43	72.4	2.05	Farmington	85	26	49.9	2.02				
Bluff City	.....	.....	.....	Dialville	92	45	69.4	0.59	Fillmore	92	21	54.4	0.62					
Bolivar	87	28	58.8	0.29	Dublin	96	41	68.8	5.00	Fort Duchesne	78	18	47.7	0.44				
Bristol	84	23	55.0	T.	Duval	94	46	70.8	3.32	Frisco	77	24	49.7	0.41				
Brownsville	85	33	59.4	0.67	Estelle	94	39	68.9	4.60	Garrison	80	15	47.6	0.94				
Byrdstown	88	29	58.3	0.99	Fort Brown	94	50	76.4	1.38	Giles	82	18	50.8	0.34				
Carthage	90	30	60.0	0.70	Fort Clark	89	43	69.8	2.60	Government Creek	81	21	49.0	1.04				
Cedar Hill	89	29	59.8	1.01	Fort Davis	83	28	58.4	3.05	Heber	80	17	47.2	1.22				
Celina	.....	.....	1.11	Fort McIntosh	96	42	75.3	1.05	Henefer	81	15	47.0	1.29					
Charleston	.....	.....	0.06	Fort Ringgold	94	44	74.2	1.46	Hite	91	32	59.7	0.36					
Clarksville	86	30	59.0	T.	Frederickstockton	90	33	62.8	2.03	Huntsville	.....	.....	2.04	.....				
Covington	86	31	59.6	0.55	Gainesville	91	39	67.2	2.89	Ibahap	80	15	44.6	1.70				
Decatur	88	24	57.6	0.05	Gatesville	.....	.....	5.05	.....	Indianola	.....	.....	0.50	.....				
Dickson	89 <sup>b</sup>	27 <sup>b</sup>	60.8 <sup>b</sup>	0.31	Georgetown	100	41	69.8	4.81	Kanab	83	18	48.2	0.80				
Dover	91	26	59.4	0.46	Graham	101	33	68.4	1.61	Kelton	71	21	45.8	3.00				
Dyersburg	85	34	59.6	1.00	Grapevine	102	41	70.4	5.70	La Sal	74	16	45.2	1.04				
Elizabethton	87	29	55.6	0.02	Greenville	100	41	70.3	1.85	Levan	77	21	47.4	0.98</td				

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	
Utah—Cont'd.	°	°	°	Ins.	Ins.		Washington—Cont'd.	°	°	°	Ins.	1.60	Ins.	Wisconsin—Cont'd.	°	°	°	Ins.	Ins.	
Rockville.....	95	26	62.7	0.42		Lakeside.....	81	30	49.8	1.60			Downing.....	75	20	47.4	7.44	1.0		
St. George.....	97	12	59.4	0.19		Lester.....	80 <sup>f</sup>	35 <sup>f</sup>	53.7 <sup>f</sup>				Easton.....	77	15	49.2	4.21	0.5		
Salt Air.....	74	30	51.4	1.02	2.0	Liud.....	81	30	55.2	0.35			Eau Claire.....	75	21	49.8	5.46	T.		
Scipio.....	84	14	48.6	0.95	T.	Loomis.....	85	32	53.1	2.30			Florence.....	70	18	43.8	4.56	0.2		
Snowville.....	80	21	48.0	2.21		Mottinger Ranch.....	90	35	57.0	0.66			Fond du Lac.....	78	21	49.0	3.18	T.		
Soldier Summit.....	73	7	49.6	1.21	2.0	Mount Pleasant.....	81	40	56.4	3.02			Grand Rapids.....	74	20	47.9	4.74	2.0		
Thistle.....	74	20	46.6	0.27	1.5	Moxee.....	88	25	51.4	0.47			Grand River Locks.....	74	20	47.9	5.42	1.5		
Tooele.....	78	27	51.5	0.75		Northport.....	78	21	44.6	1.40			Grantsburg.....	72	21	47.0	5.04	2.0		
Tropic.....	80	19	50.4	T.		Odessa.....	76	23	51.4	0.22			Hancock.....	74	20	48.0	4.20	2.0		
Utah Lake.....				0.84	T.	Olga.....	64	39	51.5	1.97			Harvey.....	76	23	50.0	2.85	T.		
Wellington.....	81 <sup>f</sup>	18 <sup>f</sup>	47.4 <sup>f</sup>	0.80		Olympia.....	74	33	53.9	2.33			Hayward.....	70	18	44.4	5.73	2.0		
Woodruff.....	74	12	43.0	1.66		Pinehill.....	87	33	54.3	2.60			Hillsboro.....	76	18	48.8	3.71	T.		
Vermont.....						Pomroy.....	83	30	53.4	0.54			Koepenick.....	74	20	44.6	5.50			
Burlington.....	69	25	47.9	3.29	T.	Port Townsend.....	67	40	53.0	0.67			Lancaster.....	78	22	50.0	3.13			
Cavendish.....	74	15	44.9	2.67	T.	Pullman.....	79 <sup>b</sup>	34 <sup>b</sup>	53.0 <sup>b</sup>	2.06			Madison.....	74	20	50.7	1.71			
Chelsea.....	61	14	40.6	1.77	3.0	Rattlesnake.....	79 <sup>c</sup>	34 <sup>c</sup>	49.8 <sup>c</sup>	0.46			Manitowoc.....	75	25	48.7	3.63	T.		
Chittenden.....				4.30		Republic.....	81	22	46.0	0.83			Meadow Valley.....	77	17	47.8	3.26	1.5		
Cornwall.....	68	23	47.3	2.94	T.	Ritzville.....							Medford.....	72	23	46.5	8.00	1.0		
Derby.....	66	20	40.4	2.54		Ritzville (near).....							Menasha.....				3.93	T.		
Enosburg Falls.....	73	13	43.1	3.04	T.	Rosalia.....	81	29	51.2	1.53			Minocqua.....	63	22	43.5	5.08	T.		
Jacksonville.....	70	15	43.7	3.33	1.0	Sedro.....	69	34	52.8	2.18			Mount Horch.....	77	22	48.7	1.64	T.		
Manchester.....	70	19	44.8	3.19	T.	Snobhomish.....	68	35	53.6	2.35			Neillsville.....	74	20	48.3	5.32	2.0		
Morrisville.....	69	12	42.2	3.19	2.0	Spokane.....	74	38	52.9	5.19			New Loudon.....	76	20	47.6	4.03	T.		
Norwich.....	69	14	41.7	3.01	1.5	Southbend.....	80	35	58.0	3.34			Oconto.....	73	22	47.1	2.42	T.		
St. Johnsbury.....	69	15	44.0	1.81	T.	South Ellensburg.....	80	24	48.8	0.75			Osceola.....	75	15	47.0	5.32	T.		
Wells.....	68	16	43.4	3.38		Sunnyside.....	83	29	51.7	0.22			Oshkosh.....	75	23	49.6	3.01	T.		
Westfield.....	72	11	42.0	4.19	4.0	Trinidad.....	88	35	56.4	0.40			Pine River.....	78	20	48.3	4.36	0.4		
Woodstock.....	70	14	41.4	2.98	1.0	Twisp.....	83	26	49.5	2.26			Portage.....	77	25	50.6	2.25			
Virginia.....						Union.....	73 <sup>d</sup>	34 <sup>d</sup>	52.4 <sup>d</sup>	3.70			Port Washington.....	75	20	47.2	3.73	T.		
Ashland.....	88	29	55.3	2.45		Vancouver.....	81	37	55.4	2.23			Prairie du Chien a.....	85	23	55.4	2.27	T.		
Barboursville.....	87	25	56.0	0.73		Vashon.....	66	41	52.9	1.52			Prairie du Chien b.....				2.26			
Bedford.....		35		0.54		Waterville.....	82	30	48.8	0.79			Racine.....	80	27	52.6	1.47			
Bigstone Gap.....	81	27	55.3	0.98		Wenatchee (near).....	83	32	50.8	0.05			Sheboygan.....	75	27	50.5	3.07	T.		
Blacksburg.....	84	16	52.4	0.13	T.	Wilbur.....	81	18	48.4	0.42			Stanley.....	76	21	47.9	4.93	2.0		
Buchanan.....				0.28		Zindel.....	90 <sup>e</sup>	30 <sup>e</sup>	57.4 <sup>e</sup>	1.38			Stevens Point.....	80	19	50.4	5.26	1.6		
Buckingham.....	92	21	54.6	0.78		West Virginia.....							Tomahawk.....	74	22	48.4	5.60	T.		
Burke's Garden.....						Bancroft.....	69	28	57.7	1.11			Valley Junction.....	77	18	49.0	3.22	0.2		
Callawayville.....	90	31	56.4	2.60		Bayard.....	79	16	47.4	2.35	0.5		Viroqua.....	76	22	49.6	4.22	1.2		
Charlottesville.....	92	32	58.6	0.61		Beau Ruy.....	88	27	55.5	1.14			Watertown.....	75	21	49.3	1.84	T.		
Clarksville.....				0.68		Beverly.....	84	19	49.4	2.10	1.0		Waukesha.....	73	27	49.8	3.28	T.		
Columbia.....	87	25	54.4	0.91		Bluefield.....	87	25	57.8				Wausau.....	78	24	47.0	5.24	T.		
Dale Enterprise.....	87	24	55.2	1.12		Burlington.....	88	18	51.2	1.44			Whitehall.....	76	20	48.9	3.12	T.		
Danville.....				0.92		Cairo.....	89	18	55.8	1.75			Wyoming.....							
Dinwidie.....	90	23	55.0	3.09		Central.....	87	29	53.6	1.19			Afton.....	77	20	45.0	1.00	4.5		
Elk Knob.....	79	33	57.4	1.00		Charleston.....	85	30	58.4	1.65			Alcoa.....	73	21	48.6	1.90	2.0		
Fredericksburg.....	86	26	54.0	1.75		Creston.....	86 <sup>b</sup>	29 <sup>b</sup>	54.2 <sup>b</sup>	0.37			Basin.....	79	21	50.9	0.54			
Grahaams Forge.....	79	17	51.0	0.05	T.	Cuba.....	83	21	54.5	0.83			Border.....	75	10	42.4	1.22	2.0		
Hampton.....	85	36	59.4	1.80		Doane.....	87	27	57.8	1.51			Buffalo.....	80	14	46.8	0.26	T.		
Hot Springs.....	79	21	50.0	0.43	T.	Elkhorn.....	81	25	54.4	1.18			Cambria.....	83	20	53.0	0.39	T.		
Ivanhoe.....				0.01		Fairmont.....	89	18	55.8	1.75			Centennial.....				0.45			
Lexington.....	89	21	53.5	0.46		Glenville.....	89	20	54.9	1.00			Daniel.....	68	11	37.5	1.28			
Lincoln.....	93	19	53.3	1.84		Grafton.....	84	24	54.9	1.55			Embar.....	77	17	47.8	1.24	3.0		
McDowell.....	85	21	55.0	0.08	T.	Green Sulphur Springs.....	86	16	53.0	0.40			Evanston.....	73	20	43.5	1.23	1.0		
Mendota.....				0.24		Hamlin.....	92	20	56.2	1.50			Fort Laramie.....	89	16	50.2	0.73			
Newport News.....	83	37	59.2	1.52		Harpers Ferry.....							Fort Washakie.....	77	16	48.3	1.73			
Petersburg.....	89	30	57.0	2.12		Hinton.....							Griggs.....	80	18	48.8	1.31	3.0		
Radford.....				1.58		Huntington.....	87	25	54.9	0.64			Iron Mountain.....	72	16	44.8	0.09	0.3		
Riverton.....						Lewisburg.....	81	19	51.8	0.65			Kirtley.....	78	19	48.4	0.08	0.8		
Roanoke.....	93	24	58.0	0.36		Logan.....	85	30	60.5	2.52			Laramie.....	70	7	43.0	0.54	3.0		
Rockymount.....						Lost Creek.....	91	17	56.6	1.80			Leo.....	70	17	42.8	1.20	7.0		
Saxe.....	94	24	57.1	1.54		Mannington.....	85	20	52.4	1.48			Little Medicine.....	70	11	40.6	0.61	13.0		
Shenandoah.....				1.63		Martinsburg.....	89	23	53.3	2.45			Lolabanna Ranch.....	68	15	42.1	0.37			
Speers Ferry.....				0.70		Moorefield.....	92	19	55.0	0.68			Lusk.....	80	15	47.2	0.09			
Spottsville.....	88	29	56.2	2.30		Morgantown.....	84	30	55.6	1.74			Mceteetse.....	78	15	47.4	1.25	3.0		
Staunton.....	86	25	55.7	0.95	T.	Moundsville.....	88	25	55.4	1.60			Moore.....	75	17	47.6	0.60	3.4		
Stephens City.....	91	22	56.2	1.53		New Cumberland.....	85	21	52.2	1.25			Moorcroft.....	88	21	54.8	0.09			
Warsaw.....	88 <sup>a</sup>	29 <sup>a</sup>	57.8 <sup>a</sup>	2.80		New Martinsville.....	88	26	55.4	2.01			Phillips.....	79	21	49.1	0.55	4.0		
Wilkinson.....	88	31	56.4	2.49		Nuttallburg.....	85	35	59.2	0.55			Pine Bluff.....	81	19	48.6	0.20	2.0		
Williamsburg.....	80	29	54.9			Parsons.....	83	19	51.0	2.91			Sheridan.....				0.15			
Woodstock.....	92	23	56.1	1.10		Philippi.....	84	17	51.0	1.74			South Pass City.....	70	—	4	39.6	0.58		
Wytheville.....	85	18	54.2	0.02	T.	Point Pleasant.....	87	26	58.6	0.42			Wells.....	64 <sup>b</sup>	12	39.6 <sup>b</sup>	1.07	1.8		
Washington.....						Princeton.....</														

## MONTHLY WEATHER REVIEW.

OCTOBER, 1904

TABLE II.—*Climatological record of voluntary and other cooperating observers. Late reports for September—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Porto Rico—Cont'd.</i>	°	°	°	<i>Ins.</i>	<i>Ins.</i>	<i>Maine.</i>	°	°	°	<i>Ins.</i>	<i>Ins.</i>
Santa Isabel .....	91	66	78.6	11.96		Chesuncook .....	.....	.....	.....	7.71	
Vieques .....	90	70	80.2	8.74		Grant Farm .....	.....	.....	.....	7.85	
Yauco .....	88	69	78.0	12.38		<i>Massachusetts.</i>					
<i>New Brunswick.</i>						Concord .....	84	25	59.5	5.19	
St. John .....	62	27	44.8	4.48		<i>Michigan.</i>					
<i>Late reports for September, 1904.</i>											
<i>Alaska.</i>						Detour .....	75	33	54.5	5.66	
Chestochena .....	71	15	40.0	2.01		Grand Marais .....	74	33	52.6	5.22	
Coal Harbor .....	64	33	48.4	3.73		Mankato .....	.....	.....	.....	3.33	
Copper Center .....	67	6	40.1	0.73	1.0	St. Cloud .....	81	30	58.4	3.02	
Fort Liscum .....	70	30	44.7	7.96		<i>Montana.</i>					
Kenai .....	75	11	44.6	4.01		Billings .....	99	29	61.5	.....	
Ketchemstock .....	64	0	32.2	0.64	0.5	Columbia Falls .....	.....	.....	.....	0.96	
Loring .....	72	34	50.6	20.20		<i>Nebraska.</i>					
Skagway .....	67	32	47.4	2.80		Wakefield .....	95	33	62.6	1.74	
Sunrise .....	70	20	44.2	2.33		<i>New Hampshire.</i>					
Tanana .....	63	3	29.8	1.06	1.0	Bartlett .....	.....	.....	.....	5.53	
Teikhill .....	70	11	40.4	1.21	0.5	Bretou .....	.....	.....	.....	7.81	
Wood Island .....	65	40	50.2	4.63		Jefferson Highlands .....	.....	.....	.....	6.06	
Wrangell .....	67	35	50.6	18.22		North Woodstock .....	.....	.....	.....	7.53	
<i>Arizona.</i>						<i>New Mexico.</i>					
Huachuca Reservoir .....	.....	.....	.....	1.30		Fort Bayard .....	88	40	64.8	2.81	
<i>Arkansas.</i>						Fort Wingate .....	81	33	62.4	0.67	
Clarendon .....	.....	.....	.....	0.84		Lordsburg .....	.....	.....	.....	3.09	
<i>California.</i>						<i>North Carolina.</i>					
Indio .....	112	67	85.4	0.00		Brewers .....	92	43	68.0	1.20	
Newcastle .....	105	55	76.1	3.86		Fayetteville .....	90	44	72.0	.....	
Sonora .....	94	52	78.3	3.34		<i>Oregon.</i>					
Willits .....	.....	.....	.....	2.25		John Day .....	.....	.....	.....	0.98	
<i>Illinois.</i>						Paisley .....	91 <sup>d</sup>	37 <sup>d</sup>	62.5 <sup>d</sup>	.....	
Albion .....	92	43	69.6	5.86		<i>Rhode Island.</i>					
<i>Iowa.</i>						Pawtucket .....	84	34	61.8	8.00	
Maquoketa .....	90	30	62.0	3.99		<i>South Dakota.</i>					
Northwood .....	.....	.....	.....	1.40		Gann Valley .....	109	32	64.6	0.21	
<i>Kansas.</i>						<i>Tennessee.</i>					
Newton .....	100	40	71.3	2.08		Grace .....	.....	.....	.....	1.60	
Yates Center .....	95	38	71.2	1.37		<i>Texas.</i>					
<i>Louisiana.</i>						Clarendon .....	95	55	75.0	0.50	
Caspiana .....	99 <sup>a</sup>	57 <sup>a</sup>	79.8 <sup>a</sup>	5.36		San Marcos .....	95	64	79.2	2.54	
						<i>Washington.</i>					
						Colville .....	91	25	56.4	0.57	
						<i>Porto Rico.</i>					
						Corozal .....	94	70	82.4	4.13	
						<i>Mexico.</i>					
						Coatzacoalcos .....	.....	.....	.....	11.44	
						Vera Cruz .....	89	70	79.8	4.57	

## EXPLANATION OF SIGNS.

\* Extremes of temperature from observed readings of dry thermometer.

A numeral following the name of a station indicates the hours of observation from which the mean temperature was obtained, thus:

<sup>1</sup> Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. + 4.

<sup>2</sup> Mean of 8 a. m. + 8 p. m. + 2.

<sup>3</sup> Mean of 7 a. m. + 7 p. m. + 2.

<sup>4</sup> Mean of 6 a. m. + 6 p. m. + 2.

<sup>5</sup> Mean of 7 a. m. + 2 p. m. + 2.

<sup>6</sup> Mean of readings at various hours reduced to true daily mean by special tables.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

An italic letter following the name of a station, as "Livingston <sup>a</sup>," "Livingston <sup>b</sup>," indicates that two or more observers, as the case may be, are reporting from the same station. A small roman letter following the name of a station, or in figure columns, indicates the number of days missing from the record; for instance, "<sup>a</sup>" denotes 14 days missing.

No note is made of breaks in the continuity of temperature records when the same do not exceed two days. All known breaks of whatever duration, in the precipitation record receive appropriate notice.

## CORRECTIONS.

June, 1904, Oregon, Bend, make minimum and mean temperatures 29 and 60.2 instead of 25 and 57.7 respectively; July, 1904, make minimum and mean temperatures 34 and 65.6° instead of 24 and 60.6°, respectively; July, 1904, Montana, Dayton, make mean temperature 70.4 instead of 70.2.

NOTE.—The following changes have been made in names of stations: Colorado, Parachute, changed to Grand Valley; Mississippi, Swartwout, changed to Pecan; New Mexico, Maxwell, near, changed to Cimarron.

TABLE III.—Resultant winds from observations at 8 a. m. and 8 p. m., daily, during the month of October, 1904.

Stations.	Component direction from—				Resultant.		Stations.	Component direction from—				Resultant.	
	N.	S.	E.	W.	Direction from—	Duration.		N.	S.	E.	W.	Direction from—	Duration.
<i>New England.</i>													
Eastport, Me.	Hours.	Hours.	Hours.	Hours.	°	Hours.	Upper Mississippi Valley.	Hours.	Hours.	Hours.	Hours.	°	Hours.
Portland, Me.	18	18	5	35	w.	30	Minneapolis, Minn.*	11	10	6	n. 76 e.	4	
Concord, N. H.†	16	25	5	29	s. 69 w.	26	St. Paul, Minn.	22	22	15	w.	5	
Northfield, Vt.	12	10	8	10	n. 45 w.	3	La Crosse, Wis.†	7	14	6	s. 8 w.	7	
Boston, Mass.	20	31	6	17	s. 45 w.	16	Davenport, Iowa	12	19	19	s. 41 w.	9	
Nantucket, Mass.	19	16	8	29	n. 32 w.	21	Des Moines, Iowa	15	25	18	s. 22 w.	11	
Block Island, R. I.	20	18	12	24	n. 81 w.	12	Dubuque, Iowa	15	22	15	s. 49 w.	11	
Narragansett, R. I.‡	24	15	9	23	n. 57 w.	17	Keokuk, Iowa	14	22	17	s. 32 w.	9	
New Haven, Conn.	9	4	5	19	n. 70 w.	15	Cairo, Ill.	26	19	20	n. 52 e.	11	
Middle Atlantic States.	26	10	10	26	n. 45 w.	23	Springfield, Ill.	15	23	17	s. 14 w.	8	
Albany, N. Y.	29	27	5	16	n. 80 w.	11	Hannibal, Mo.†	6	11	10	s. 31 w.	6	
Binghamton, N. Y.†	9	5	14	11	n. 37 e.	5	St. Louis, Mo.	9	24	25	s. 28 e.	17	
New York, N. Y.	22	15	11	23	n. 60 w.	14	<i>Missouri Valley.</i>						
Harrisburg, Pa.	19	17	17	21	n. 63 w.	4	Columbia, Mo. *	5	13	11	s. 21 e.	8	
Philadelphia, Pa.	25	17	13	23	n. 51 w.	13	Kansas City, Mo.	10	26	21	s. 21 e.	17	
Scranton, Pa.	19	22	11	26	s. 79 w.	15	Springfield, Mo.	14	25	23	s. 45 e.	16	
Atlantic City, N. J.	29	14	7	22	n. 47 w.	22	Topeka, Kans.*	8	16	5	s. 14 w.	8	
Cape May, N. J.	29	16	9	15	n. 25 w.	14	Lincoln, Nebr.	18	28	16	s. 6 e.	10	
Baltimore, Md.	28	15	11	19	n. 32 w.	15	Omaha, Nebr.	18	29	13	s. 24 w.	12	
Washington, D. C.	22	17	19	20	n. 11 w.	5	Valentine, Nebr.†	19	20	9	s. 87 w.	21	
Cape Henry, Va.†	13	12	7	3	n. 76 e.	4	Sioux City, Iowa†	11	11	10	e.	1	
Lynchburg, Va.	17	16	17	19	n. 63 w.	2	Pierre, S. Dak.	19	13	23	n. 27 e.	7	
Norfolk, Va.	27	16	21	10	n. 45 e.	16	Huron, S. Dak.	22	22	20	n. 16 e.	4	
Richmond, Va.	28	21	11	16	n. 36 w.	9	Yankton, S. Dak.†	8	10	9	s. 56 w.	4	
Wytheville, Va.	20	9	14	31	n. 37 w.	20	<i>Northern Slope.</i>						
South Atlantic States.							Havre, Mont.	18	11	17	n. 63 w.	16	
Asheville, N. C.	21	24	17	18	s. 18 w.	3	Miles City, Mont.	24	14	5	n. 65 w.	23	
Charlotte, N. C.	24	15	32	8	n. 69 e.	26	Helena, Mont.	13	21	2	s. 79 w.	43	
Hatteras, N. C.	37	6	32	7	n. 39 e.	4	Kalispell, Mont.	9	18	6	s. 74 w.	33	
Raleigh, N. C.	35	11	9	16	n. 16 w.	25	Rapid City, S. Dak.	21	10	9	n. 67 w.	28	
Wilmington, N. C.	38	6	28	6	n. 34 e.	39	Cheyenne, Wyo.	27	16	6	n. 65 w.	26	
Charleston, S. C.	38	5	28	5	n. 35 e.	40	Lander, Wyo.	15	24	10	s. 61 w.	18	
Columbia, S. C.	30	7	30	12	n. 38 e.	29	Yellowstone Park, Wyo.	8	36	3	s. 45 w.	40	
Augusta, Ga.	36	6	25	11	n. 25 e.	33	North Platte, Nebr.	15	21	10	s. 69 w.	17	
Savannah, Ga.	36	6	27	6	n. 35 e.	37	<i>Middle Slope.</i>						
Jacksonville, Fla.	44	2	22	7	n. 20 e.	45	Deuver, Colo.	15	28	20	s. 47 e.	19	
Florida Peninsula.							Pueblo, Colo.	21	15	18	s. 49 e.	9	
Jupiter, Fla.	26	10	31	7	n. 36 e.	29	Concordia, Kans.	16	33	9	s. 16 w.	18	
Key West, Fla.	36	5	28	10	n. 30 e.	36	Dodge, Kans.	13	28	15	s. 11 w.	15	
Saud Key, Fla.†	18	1	16	6	n. 30 e.	20	Wichita, Kans.	15	30	18	s. 31 e.	18	
Tampa, Fla.	44	1	28	11	n. 22 e.	46	Oklahoma, Okla.	16	24	22	s. 51 e.	13	
Eastern Gulf States.							<i>Southern Slope.</i>						
Atlanta, Ga.	19	7	33	15	n. 56 e.	22	Abilene, Tex.	15	29	21	s. 36 e.	17	
Macon, Ga.†	22	1	9	6	n. 8 e.	21	Amarillo, Tex.	15	29	18	s. 8 e.	14	
Pensacola, Fla.†	21	0	14	4	n. 25 e.	23	<i>Southern Plateau.</i>						
Birmingham, Ala.†	13	3	17	5	n. 50 e.	16	El Paso, Tex.	23	7	35	n. 51 e.	26	
Mobile, Ala.	42	6	10	11	n. 2 w.	36	Santa Fe, N. Mex.	22	18	26	n. 72 e.	13	
Montgomery, Ala.	36	4	28	8	n. 32 e.	38	Flagstaff, Ariz.	30	6	24	n. 16 e.	25	
Meridian, Miss.†	18	3	14	3	n. 36 e.	19	Phoenix, Ariz.	10	13	28	s. 59 e.	6	
Vicksburg, Miss.	26	8	28	9	n. 47 e.	26	Yuma, Ariz.	27	13	24	n. 38 w.	18	
New Orleans, La.	34	5	31	7	n. 40 e.	38	Independence, Cal.	24	19	11	n. 72 w.	16	
Western Gulf States.							<i>Middle Plateau.</i>						
Shreveport, La.	22	16	29	13	n. 69 e.	17	Carson City, Nev.	18	16	27	n. 80 w.	11	
Fort Smith, Ark.	11	10	36	14	n. 87 e.	22	Winnebucca, Nev.	24	17	23	n. 49 e.	11	
Little Rock, Ark.	28	13	25	14	n. 36 e.	19	Modena, Utah.	4	2	20	s. 84 w.	18	
Corpus Christi, Tex.	25	14	27	11	n. 56 e.	19	Salt Lake City, Utah.	15	22	19	s. 8 e.	7	
Fort Worth, Tex.	20	20	21	14	e.	7	Grand Junction, Colo.	25	15	18	n. 11 w.	10	
Galveston, Tex.	21	17	29	10	n. 78 e.	19	<i>Northern Plateau.</i>						
Palestine, Tex.	26	18	27	8	n. 67 e.	21	Baker City, Oreg.	12	32	25	s. 24 e.	22	
San Antonio, Tex.	21	19	29	9	n. 84 e.	20	Boise, Idaho.	23	19	16	n. 66 w.	10	
Taylor, Tex.†	13	11	12	5	n. 74 e.	7	Lewiston, Idaho.†	4	10	20	s. 71 e.	18	
Ohio Valley and Tennessee.							Pocatello, Idaho.	2	28	28	s. 23 e.	28	
Chattanooga, Tenn.	23	19	17	19	n. 27 w.	4	Spokane, Wash.	15	19	30	s. 79 e.	20	
Knoxville, Tenn.	23	17	10	20	n. 42 w.	15	Walla Walla, Wash.	6	33	18	s. 8 e.	27	
Memphis, Tenn.	32	13	22	8	n. 36 e.	24	<i>North Pacific Coast Region.</i>						
Nashville, Tenn.	26	20	15	14	n. 9 e.	6	North Head, Wash.	16	27	23	s. 50 e.	17	
Lexington, Ky.†	9	13	11	8	n. 37 w.	5	Port Crescent, Wash.†	7	9	14	s. 63 e.	4	
Louisville, Ky.	27	19	7	17	n. 51 w.	13	Seattle, Wash.	22	16	14	s. 49 w.	9	
Evansville, Ind.†	14	9	7	9	n. 22 w.	5	Tacoma, Wash.	34	15	4	s. 36 w.	24	
Indianapolis, Ind.	19	26	13	16	n. 23 w.	8	Tatoosh Island, Wash.	3	23	33	s. 48 e.	30	
Cincinnati, Ohio.	23	18	16	18	n. 22 w.	5	Portland, Oreg.	17	25	13	s. 56 w.	14	
Columbus, Ohio.	19	23	12	18	n. 56 w.	7	Roseburg, Oreg.	23	12	18	n. 10 w.	11	
Pittsburg, Pa.	26	17	11	23	n. 53 w.	15	<i>Middle Pacific Coast Region.</i>						
Parkersburg, W. Va.	21	21	15	19	w.	4	Eureka, Cal.	19	18	21	n. 83 w.	8	
Elkins, W. Va.	29	13	5	22	n. 47 w.	23	Mount Tamalpais, Cal.	27	12	15	n. 31 w.	18	
Lover Lake Region.							Red Bluff, Cal.	27	20	18	n. 23 e.	8	
Buffalo, N. Y.	17	21	16	22	s. 56 w.	7	Sacramento, Cal.	22	21	22	n. 85 e.	11	
Oswego, N. Y.	16	29	12	19	s. 28 w.	15	San Francisco, Cal.	5	12	4	s. 80 w.	41	
Rochester, N. Y.	12	23	10	31	s. 62 w.	24	Point Reyes Light, Cal. *	18	5	1	n. 45 w.	18	
Syracuse, N. Y.	10	28	8	23	s. 40 w.	23	Southeast Farallon, Cal. *	16	5	1	n. 60 w.	22	
Erie, Pa.	15	29	11	18	s. 27 w.	16	<i>South Pacific Coast Region.</i>						
Cleveland, Ohio.	17	29	13	15	s. 9 w.	12	Fresno, Cal.	30	15	12	n. 34 w.	18	
Sandusky, Ohio.†	6	15	3	12	s. 45 w.	13	Los Angeles, Cal.	16	13	16	n. 78 w.	14	
Toledo, Ohio.	17	25	10	25	s. 59 w.	18	San Diego, Cal.	33	5	12	n. 12 w.	29	
Detroit, Mich.	17	18	12	28	s. 87 w.	16	San Luis Obispo, Cal.	30	16	11	n. 33 w.	17	
Upper Lake Region.							<i>West Indies</i>						
Alpena, Mich.	21	20	12	26	n. 86 w.	14	Basseterre, St. Kitts, W. I.	14	13	41	s. 88 e.	38	
Escanaba, Mich.	22	20	6	28	n. 85 w.	22	Bridgetown, Barbados.	3	25	46	s. 63 e.	49	
Grand Rapids, Mich.	14	26	18	14	s. 18 e.	13	Cienfuegos, Cuba.	40	10	28	s. 39 e.	38	
Houghton, Mich.†	11	5	11	8	n. 27 e.	7	Colon, Panama, S. A. †	6	23	7	s. 13 e.	18	
Marquette, Mich.	20	17	13	28	n. 79 w.	15	Curaçao, W. I.	2	13	54	s. 78 e.	53	
Port Huron, Mich.	14	25	14	25	s. 45 w.	16	Grand Turk, W. I. †	3	15	20	s. 56 w.	22	
Sault Ste. Marie, Mich.	21	13	23	21	n. 14 e.	3	Hamilton, Bermuda.	27	15	28	s. 59 e.	23	
Chicago, Ill.	12	28	10	26	s. 45 w.	23	Havana, Cuba.†	6	5	20	s. 87 e.	18	
Milwaukee, Wis.	18	17	11	24	n. 86 w.	13	Kingston, Jamaica.†	17	4	11	s. 28 e.	15	
Green Bay, Wis.	16	24	11	24	s. 58 w.	15	Port of Spain, Trinidad.†	1	15	23	s. 58 e.	26	
Duluth, Minn.	31	8	17	22	n. 12 w.	24	Puerto Principe, Cuba.	23	16	35	n. 78 e.	35	
North Dakota.							Roseau, Dominica, W. I. †	13	18	13	n. 50 e.	8	
Moorhead, Minn.	19	21	22	18	s. 63 e.	4	San Juan, Porto Rico.	3	42				

TABLE IV.—*Thunderstorms and auroras, October, 1904.*

States.	No. of stations.	Total.																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	No. Days.
Alabama . . . . .	60	T.	.	.	1	3	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	6	3	T.
Arizona . . . . .	56	T.	5	2	2	8	6	1	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	0	A.		
Arkansas . . . . .	57	T.	.	7	18	3	.	.	.	6	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36	6	T.			
California . . . . .	167	T.	.	1	8	9	6	3	10	.	1	.	.	.	4	.	.	.	.	.	.	.	.	.	.	.	42	8	T.				
Colorado . . . . .	70	T.	.	.	1	8	.	6	1	.	.	4	.	2	.	.	.	.	.	.	.	.	.	.	.	22	6	T.					
Connecticut . . . . .	21	T.	.	.	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	0	A.				
Delaware . . . . .	5	T.	.	.	.	.	.	2	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	T.				
Dist. of Columbia . . . . .	4	T.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	0	A.				
Florida . . . . .	61	T.	6	4	6	4	4	2	3	2	1	1	3	4	.	.	.	.	1	1	.	.	.	1	1	44	16	T.					
Georgia . . . . .	67	T.	1	.	2	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	4	3	T.					
Idaho . . . . .	34	T.	.	8	8	7	1	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	25	5	T.						
Illinois . . . . .	84	T.	1	8	17	2	3	9	4	11	4	.	.	.	.	.	.	.	1	1	9	1	.	1	.	68	10	T.					
Indiana . . . . .	53	T.	1	.	1	1	.	7	2	8	4	.	.	.	.	.	.	.	17	.	.	.	.	.	7	7	A.						
Indian Territory . . . . .	20	T.	1	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	0	A.						
Iowa . . . . .	128	T.	1	1	10	15	1	2	5	16	9	.	.	.	.	11	13	25	2	1	.	.	.	1	.	112	14	T.					
Kansas . . . . .	88	T.	2	2	2	10	5	.	.	2	.	5	2	.	.	5	4	2	.	1	.	.	.	41	11	T.							
Kentucky . . . . .	41	T.	.	2	1	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	6	5	T.							
Louisiana . . . . .	46	T.	1	2	4	1	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	9	5	T.							
Maine . . . . .	25	T.	.	.	1	.	3	10	1	.	.	3	1	1	1	.	.	.	.	.	.	.	.	0	0	T.							
Maryland . . . . .	42	T.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	5	3	T.					
Massachusetts . . . . .	48	T.	.	.	1	5	8	.	.	.	.	.	2	2	.	.	.	.	.	.	.	.	.	1	1	1	5	A.					
Michigan . . . . .	106	T.	15	13	2	1	1	4	16	3	1	.	1	5	4	2	4	1	3	.	.	.	.	59	10	T.							
Minnesota . . . . .	67	T.	3	.	1	.	8	5	10	2	.	.	1	.	.	.	.	.	.	.	.	.	2	2	49	11	T.						
Mississippi . . . . .	57	T.	1	2	2	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	5	3	T.								
Missouri . . . . .	86	T.	1	.	9	10	.	4	.	2	.	.	.	.	.	.	.	4	.	.	.	.	30	6	T.								
Montana . . . . .	54	T.	1	.	2	1	.	2	1	.	.	.	.	2	.	.	.	.	1	5	.	.	7	1	5	T.							
Nebraska . . . . .	137	T.	1	2	6	.	2	6	8	2	.	7	3	.	2	1	12	20	4	1	.	.	.	75	14	T.							
Nevada . . . . .	40	T.	.	1	3	.	.	.	.	.	2	1	2	2	1	2	2	1	1	.	.	.	2	1	21	13	T.						
New Hampshire . . . . .	21	T.	.	.	3	5	.	.	.	.	4	2	.	.	.	.	.	.	.	.	.	.	0	0	T.								
New Jersey . . . . .	48	T.	1	.	.	.	.	.	.	.	4	2	.	.	.	.	.	.	.	.	.	.	10	3	T.								
New Mexico . . . . .	31	T.	1	.	.	2	3	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	6	3	T.								
New York . . . . .	129	T.	2	.	6	2	15	9	1	.	.	.	.	.	.	.	.	2	.	.	.	.	2	0	9	7	T.						
North Carolina . . . . .	56	T.	1	3	2	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	7	2	T.								
North Dakota . . . . .	48	T.	.	2	1	.	1	.	.	.	.	.	1	6	2	9	1	.	.	.	.	.	2	1	21	7	T.						
Ohio . . . . .	101	T.	1	.	21	.	12	2	29	11	1	.	1	1	1	1	.	.	15	.	.	.	.	93	9	T.							
Oklahoma . . . . .	36	T.	5	1	3	.	.	.	.	.	.	.	4	2	.	2	1	1	.	.	.	.	19	8	T.								
Oregon . . . . .	70	T.	.	2	4	3	1	.	1	.	2	1	.	.	.	.	.	.	.	.	.	2	1	17	9	T.							
Pennsylvania . . . . .	91	T.	10	3	.	.	.	.	3	7	.	.	.	.	.	.	.	.	2	.	.	.	25	5	T.								
Rhode Island . . . . .	6	T.	.	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	0	T.									
South Carolina . . . . .	54	T.	1	.	9	1	.	.	.	.	.	.	.	.	.	.	.	1	1	.	.	2	1	5	T.								
South Dakota . . . . .	56	T.	1	.	1	1	1	2	3	.	3	1	.	3	1	2	1	.	.	.	.	.	19	11	T.								
Tennessee . . . . .	56	T.	10	.	.	.	.	.	2	.	.	.	.	.	.	.	.	1	.	.	.	1	1	3	3	T.							
Texas . . . . .	126	T.	3	1	2	1	.	1	.	1	5	3	4	1	.	1	4	2	.	8	10	3	1	3	55	19	T.						
Utah . . . . .	64	T.	1	16	2	1	8	2	2	1	.	.	.	.	.	.	.	.	2	1	.	.	33	8	T.								
Vermont . . . . .	12	T.	.	2	4	.	.	.	.	1	.	.	.	.	.	.	.	2	.	.	.	0	0	T.									
Virginia . . . . .	40	T.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	2	.	.	0	0	A.									
Washington . . . . .	71	T.	.	.	.	.	1	1	.	.	.	.	.	.	.	.	.	1	.	.	.	3	3	T.									
West Virginia . . . . .	47	T.	7	4	1	.	1	2	1	.	.	1	.	.	.	.	.	1	.	.	.	0	0	A.									
Wisconsin . . . . .	63	T.	1	3	7	19	2	11	8	22	14	1	.	1	.	.	2	.	1	.	.	90	4	T.									
Wyoming . . . . .	38	T.	.	.	2	1	1	1	.	2	.	.	.	.	.	.	.	.	5	7	5	0	A.										
Sums . . . . .	2993	T.	120	16	32	105	173	95	64	100	89	125	54	38	26	25	14	22	30	51	49	100	33	5	0	5	1	1,227	T.				
		A.	4	1	5	24	32	3	1	0	1	0	1	2	10	7	0	1	0	0	1	0	0	1	0	0	1	0	105	A.			

TABLE V.—Accumulated amounts of precipitation for each 5 minutes, for storms in which the rate of fall equaled or exceeded 0.25 in any 5 minutes, or 0.75 in 1 hour during October, 1904, at all stations furnished with self-registering gages.

Stations.	Date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive began.	Depths of precipitation (in inches) during periods of time indicated.														
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.	
Albany, N. Y.	1	21	6:54 a. m.	1:50 p. m.	4	5	10:50 a. m.	11:50 a. m.	1.00	0.05	0.13	0.21	0.26	0.32	0.35	0.39	0.46	0.55	0.69	0.85	.....	
Alpena, Mich.	9																			0.21	.....	
Amarillo, Tex.	17																				.....	
Asheville, N. C.	6																				0.06	
Atlanta, Ga.	2																				0.33	
Atlantic City, N. J.	21																				0.10	
Augusta, Ga.	6																				0.06	
Baltimore, Md.	21		12:50 a. m.	7:55 a. m.	2.10	4:43 a. m.	6:05 a. m.	0.83	0.06	0.14	0.31	0.43	0.52	0.58	0.64	0.68	0.73	0.79	0.86	1.09	.....	
Binghamton, N. Y.	21																				0.30	.....
Birmingham, Ala.	5																				0.09	.....
Bismarck, N. Dak.	16		7:00 p. m.	10:48 p. m.	1.15	7:15 p. m.	7:57 p. m.	0.03	0.05	0.22	0.46	0.57	0.68	0.74	0.83	0.92	0.95				0.20	.....
Block Island, R. I.	21																				0.18	.....
Boise, Idaho.	7																				0.30	.....
Boston, Mass.	12-13																				0.37	.....
Buffalo, N. Y.	10-11																				0.55	.....
Cairo, Ill.	5																				0.56	.....
Cape Henry, Va.	20-21																					.....
Charleston, S. C.	20		10:25 a. m.	10:35 p. m.	3.91	3:25 p. m.	4:15 p. m.	1.33	0.05	0.13	0.16	0.26	0.37	0.40	0.42	0.45	0.61	0.69	1.78	1.95	.....	
Charlotte, N. C.	25-26																				0.27	.....
Chattanooga, Tenn.	2																				0.13	.....
Chicago, Ill.	4-5		11:50 p. m.	5:05 a. m.	0.97	12:51 a. m.	1:20 a. m.	0.01	0.08	0.17	0.24	0.35	0.59	0.67								0.15
Cincinnati, Ohio.	10		10:30 p. m.	11:00 p. m.	0.51	10:37 p. m.	10:47 p. m.	0.01	0.33	0.49											0.51	.....
Cleveland, Ohio.	11																				0.43	.....
Columbia, Mo.	1																				0.24	.....
Columbia, S. C.	26		D. N.	2:15 p. m.	1.97	7:03 a. m.	8:00 a. m.	0.10	0.09	0.18	0.23	0.26	0.30	0.35	0.53	0.74	0.84	0.91	1.04		.....	
Columbus, Ohio.	10																				0.24	.....
Concord, N. H.	21																				0.34	.....
Corpus Christi, Tex.	25																				0.43	.....
Davenport, Iowa.	5																				0.10	.....
Denver, Colo.	17-18																				0.22	.....
Des Moines, Iowa.	8																				0.22	.....
Detroit, Mich.	10																				0.22	.....
Dodge, Kans.	17																				0.22	.....
Dubuque, Iowa.	4-5		7:40 p. m.	2:50 a. m.	1.12	12:07 a. m.	12:30 a. m.	0.34	0.32	0.50	0.60	0.71	0.75								0.46	.....
Duluth, Minn.	9																				0.56	.....
Eastport, Me.	21																				0.30	.....
Elkins, W. Va.	11-12																				*	.....
Erie, Pa.	10		3:39 p. m.	7:49 p. m.	1.75	4:18 p. m.	4:38 p. m.	0.08	0.25	0.49	0.65	0.73									0.32	.....
Escanaba, Mich.	9																				0.57	.....
Evansville, Ind.	21																				0.24	.....
Fort Smith, Ark.	4																				*	.....
Fort Worth, Tex.	24-26		D. N.	7:02 p. m.	2.10	4:20 a. m.	5:10 a. m.	0.07	0.07	0.15	0.18	0.25	0.30	0.36	0.62	0.76	0.85	0.90		0.39	.....	
Fresno, Cal.	6																				0.21	.....
Galveston, Tex.	25																				0.24	.....
Grand Junction, Colo.	6																				0.45	.....
Grand Rapids, Mich.	9																				0.35	.....
Green Bay, Wis.	3-4																				0.45	.....
Hannibal, Mo.	10																				0.20	.....
Harrisburg, Pa.	21																				0.52	.....
Hatteras, N. C.	29																				0.29	.....
Huron, S. Dak.	9																				0.22	.....
Indianapolis, Ind.	10-11																				0.53	.....
Jacksonville, Fla.	3		4:45 p. m.	5:30 p. m.	1.28	4:45 p. m.	5:15 p. m.	0.00	0.13	0.52	0.77	1.11	1.20	1.26							0.08	.....
Jupiter, Fla.	8		12:44 p. m.	10:41 a. m.	1.35	2:32 p. m.	3:00 p. m.	0.25	0.13	0.24	0.41	0.60	0.74								0.33	.....
Do.	7		10:41 a. m.	5:05 p. m.	1.09	1:20 a. m.	11:06 a. m.	0.00	0.13	0.32	0.57	0.68	0.73								0.45	.....
Do.	28		7:40 a. m.	5:00 p. m.	1.09	12:06 p. m.	12:37 p. m.	0.22	0.08	0.25	0.41	0.56	0.63	0.69	0.74						0.12	.....
Jupiter, Fla.	8		7:02 a. m.	11:45 a. m.	1.35	7:12 a. m.	7:31 a. m.	0.01	0.40	0.71	0.84	0.91									0.09	.....
Do.	12		6:46 a. m.	10:15 a. m.	0.80	6:48 a. m.	7:02 a. m.	0.01	0.22	0.60	0.67										*	.....
Kalispell, Mont.	6-7																				0.23	.....
Kansas City, Mo.	1																				0.17	.....
Key West, Fla.	6																				0.31	.....
Knoxville, Tenn.	11																				0.07	.....
La Crosse, Wis.	7																				0.35	.....
Lewiston, Idaho.	15																				0.25	.....
Lexington, Ky.	11																				0.23	.....
Lincoln, Nebr.	18																				0.23	.....
Little Rock, Ark.	5																				0.17	.....
Los Angeles, Cal.	8-9																				0.31	.....
Louisville, Ky.	11																				0.07	.....
Lynchburg, Va.	20-21																				0.12	.....
Macon, Ga.	25-26																				0.09	.....
Memphis, Tenn.	5-6																				0.36	.....
Meridian, Miss.	6																				0.05	.....
Milwaukee, Wis.	10																				0.47	.....
Minneapolis, Minn.	9																				0.45	.....
Montgomery, Ala.	6																				0.11	.....
Nantucket, Mass.	21																				0.17	.....
Nashville, Tenn.	11																				0.17	.....
New Haven, Conn.	21																				0.53	.....
New Orleans, La.	6																				0.33	.....
New York, N. Y.	12																				0.66	.....
Norfolk, Va.	21	</td																				

TABLE V.—Accumulated amounts of precipitation for each 5 minutes, etc.—Continued.

Stations.	Date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive began.	Depths of precipitation (in inches) during periods of time indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
St. Louis, Mo.	10	2	3	4	5	6	7												0.14		
St. Paul, Minn.	7-8			0.16															0.42		
Salt Lake City, Utah	12			1.67															0.19		
San Antonio, Tex.	19	1:40 a.m.	4:40 a.m.	1.24	1:44 a.m.	2:13 a.m.	T.	0.25	0.30	0.50	0.75	1.00	1.08	1.12	1.16						
San Diego, Cal.	5			0.07															0.18		
Sandusky, Ohio	5			0.18															0.30		
San Francisco, Cal.	11			0.72															0.06		
Savannah, Ga.	3			0.09															0.65		
Scranton, Pa.	21			1.84															0.56		
Seattle, Wash.	11			0.86															0.16		
Shreveport, La.	9			0.11															0.24		
Spokane, Wash.	8			0.25															0.51		
Springfield, Ill.	10			0.08															0.30		
Springfield, Mo.	4			0.20															0.05		
Syracuse, N. Y.	21			1.07															0.08		
Tampa, Fla.	18-19			2.53															0.29		
Taylor, Tex.	24-26			3.66															0.28		
Toledo, Ohio	10			0.25															0.44		
Topeka, Kans.	10			0.09															0.13		
Valentine, Neb.	18			0.43															0.71		
Vicksburg, Miss.	11			0.06															0.22		
Washington, D. C.	21			2.02															0.11		
Wichita, Kans.	4			0.22															0.10		
Williston, N. Dak.	13			0.11															0.29		
Wilmington, N. C.	20-21			0.84															0.01		
Wytheville, Va.	22			2.50															0.28		
Yankton, S. Dak.	17-19			0.01															0.44		
Havana, Cuba	18			0.67															0.13		
San Juan, Porto Rico	8	3:15 p.m.	7:40 p.m.	1.51	4:19 p.m.	4:50 p.m.	0.59	0.18	0.40	0.51	0.54	0.59	0.67								
Honolulu, H. I.	31			0.13																	

\*Self-register not working

TABLE VI.—Data furnished by the Canadian Meteorological Service, October, 1904.

Stations.	Pressure, in inches.			Temperature.			Precipitation.			Stations.	Pressure, in inches.			Temperature.			Precipitation.			
	Actual, reduced to mean of 24 hours.	Sealevel, reduced to mean of 24 hours.	Departure from normal.	Mean.	Departure from normal.	Mean maximum.	Total.	Departure from normal.	Depth of snow.		Actual, reduced to mean of 24 hours.	Sealevel, reduced to mean of 24 hours.	Departure from normal.	Mean.	Departure from normal.	Mean maximum.	Total.	Departure from normal.	Depth of snow.	
	In.	In.	In.	°	°	°	In.	In.	In.		In.	In.	In.	°	°	°	In.	°	°	
St. Johns, N. F.	Ins.	Ins.	Ins.	o	o	o	Ins.	Ins.	Ins.	Parry Sound, Ont.	30.04	+0.08	43.9	o	o	o	1.34	+2.58	T.	
Sydney, C. B. I.	29.90	29.94	+0.03	45.2	-0.2	51.8	33.6	3.41	+3.06	Port Arthur, Ont.	29.29	+0.05	41.0	+1.1	47.3	34.6	3.62	+1.06		
Halifax, N. S.	29.97	30.01	+0.05	47.0	+0.5	54.9	33.1	3.01	+1.68	Winnipeg, Man.	29.17	30.02	+0.04	43.6	+4.5	51.8	35.3	1.51	-0.19	4.4
Grand Manan, N. B.	29.98	30.03	+0.04	46.5	-0.7	55.3	37.6	5.03	-0.52	Minnedosa, Man.	28.19	30.04	+0.07	42.4	+4.6	51.7	33.0	0.73	-0.47	0.3
Yarmouth, N. S.	29.97	30.04	+0.02	46.2	-1.4	53.0	39.4	4.07	-0.63	Qu'Appelle, Assin.	27.71	29.96	-0.01	44.5	+5.1	54.9	34.1	0.36	-0.74	0.8
Charlottetown, P. E. I.	29.95	29.99	+0.03	45.1	-1.4	52.3	37.9	4.11	-0.79	Medicine Hat, Assin.	27.68	29.97	+0.00	48.9	+4.1	62.8	35.1	0.52	-0.06	T.
Chatham, N. B.	29.93	29.95	-0.01	44.4	+1.4	54.2	34.5	3.46	+0.40	Swift Current, Assin.	27.42	30.00	+0.03	45.9	+3.8	57.6	34.2	0.41	-0.47	0.3
Father Point, Que.	29.92	29.94	-0.01	39.8	0.0	46.1	33.5	3.21	+0.31	Calgary, Alberta.	26.42	29.97	+0.02	43.7	+3.6	56.4	31.0	1.35	+0.87	13.3
Quebec, Que.	29.68	30.01	+0.01	41.3	-1.1	47.9	34.7	3.45	+0.30	Banff, Alberta.	25.40	30.01	+0.06	42.9	+3.6	53.6	32.2	0.57	-0.45	3.6
Montreal, Que.	29.83	30.04	+0.03	43.6	-1.2	50.1	37.1	3.21	+0.08	Edmonton, Alberta.	27.63	29.93	+0.00	44.5	+3.4	55.7	33.3	1.13	+0.43	1.0
Rockliffe	29.43	29.98	-0.03	41.9	-0.9	51.1	32.7	2.68	+0.25	Prince Albert, Sask.	28.36	29.93	-0.04	40.8	+3.7	50.4	31.1	0.72	-0.11	
Ottawa, Ont.	29.69	30.02	+0.01	44.2	+0.4	51.7	36.7	1.40	-1.15	Battleford, Sask.	28.24	29.99	+0.02	43.6	+4.0	54.7	32.4	1.07	-0.62	T.
Kingston, Ont.	29.75	30.06	+0.03	46.1	-0.9	54.2	38.1	2.46	-0.27	Kamloops, B. C.										
Toronto, Ont.	29.69	30.07	-0.03	46.0	-0.6	54.2	37.8	2.48	+0.12	Victoria, B. C.	29.92	30.02	+0.01	52.7	+3.5	57.5	47.9	0.88	-1.49	
White River, Ont.	28.69	30.03	+0.05	36.0	-1.1	42.9	29.2	3.78	+1.43	Barkerville, B. C.	25.65	29.97	+0.03	39.3	-0.4	46.3	32.3	3.40	+0.70	1.0
Port Stanley, Ont.	29.43	30.07	+0.02	46.3	-1.5	54.8	37.9	1.71	-1.27	Hamilton, Bermuda.	29.83	29.99	-0.03	73.4	+0.4	78.1	68.8	8.10	+1.39	
Saugeen, Ont.	29.34	30.05	+0.03	46.5	+0.4	54.5	38.5	2.01	-1.16	Dawson, Yukon.										

TABLE VII.—Heights of rivers referred to zeros of gages, October, 1904.

Stations.	Distance to mouth of river.	Highest water.		Lowest water.		Stations.	Highest water.		Lowest water.		Stations.	Highest water.		Lowest water.		Stations.	
		Height.	Date.	Height.	Date.		Height.	Date.	Height.	Date.		Height.	Date.	Height.	Date.		
		Feet.	Feet.	Feet.	Feet.		Feet.	Feet.	Feet.	Feet.		Feet.	Feet.	Feet.	Feet.		
Milk River, Havre, Mont.	237	9	3.0	8	2.4	5,6	2.7	0.6	Missouri River—Cont'd.	Miles.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	
Yellowstone River, Glendive, Mont. (1)	78	17	2.0	19	1.2	5-16	1.4	0.8	St. Joseph, Mo.	481	10	2.2	24	0.4	10-12	1.0	1.8
James River, Laramie, N. Dak.	330	14	-0.3	1	-1.2	30,31	-0.7	0.9	Kansas City, Mo.	388	21	8.3	26	6.2	21	7.0	2.1
Huron, S. Dak., Republican River, Clay Center, Kans.	139	9	0.9	18	0.5	1-6, 8, 24	0.6	0.4	Glasgow, Mo.	231	19	4.2	5	2.0	20-23	2.9	2.2
Manhattan, Kans.	160	18	5.2	4	2.8	19	3.5	2.4	Boonville, Mo.	199	20	8.2	6	5.7	25	6.6	2.5
Topeka, Kans.	87	21	7.6	1	6.1	19-21	6.6	1.5	Hermann, Mo., Minnesota River.	103	24	8.0	2	5.5	23-25	6.3	2.5
Missouri River, Townsend, Mont.	2,504	11	4.0	24-31	3.8	1-9	3.9	0.2	Mankato, Minn.	127	18	2.8	23	1.9	1-9	2.3	0.9
Fort Benton, Mont.	2,285	12	0.8	27-31	0.3	1	0.5	0.5	St. Croix River, Stillwater, Minn. (2)	23	11	10.7	24	5.0	4,8	2.9	0.8
Bismarck, N. Dak.	1,309	14	0.2	28-31	-0.5	6-10, 13	-0.3	0.7	Chippewa Falls, Wis.	75	16						
Pierre, S. Dak.	1,114	14	2.4														

TABLE VII.—*Heights of rivers referred to zeros of gages.*—Continued.

Stations.	Distance to mouth of river.	Danger line on gage.	Highest water.		Lowest water.		Mean stage.	Monthly range.	Stations.	Distance to mouth of river.	Danger line on gage.	Highest water.		Lowest water.		Mean stage.	Monthly range.	
			Height.	Date.	Height.	Date.						Height.	Date.	Height.	Date.			
			Feet.		Feet.		Feet.					Feet.		Feet.		Feet.		
Clarion River.	Miles.	Feet.	Feet.		Feet.		Feet.		White River.	Miles.	Feet.	Feet.		Feet.		Feet.		
Clarion, Pa.	32	10	2.7		0.3		1.2		Calicorock, Ark.	272	15	-0.1	6	-0.6		21-31	0.4	
Coneauqua River.									Batesville, Ark.	217	18	2.7	7	2.2		26-31	0.5	
Johnstown, Pa.	64	7	0.8	12-14	0.4	1, 2, 5	0.6	0.4	Newport, Ark.	185	26	1.3	6	0.3		29-31	0.7	
Allegheny River.									Arkansas River.								1.0	
Warren, Pa.	177	14	2.8		0.3	10, 11	1.3	2.5	Wichita, Kans.	832	10	4.1	5	-0.2	1	1.6	4.3	
Oil City, Pa.	123	13	2.8		0.2	11, 11	1.7	1.7	Tulsa, Ind. T.	551	16	3.5	11, 12	2.0	6, 7	2.5	1.5	
Parker, Pa.	73	20	2.8		0.9	11	1.5	1.9	Webbers Falls, Ind. T.	465	23	6.6	5	3.8	4, 7-10	4.2	2.8	
Freeport, Pa.	29	20	4.8		1.7	11, 12	2.7	3.1	Fort Smith, Ark.	403	22	14.0	6	3.1	31	4.9	10.9	
Cheat River.									Dardanelle, Ark.	256	21	13.4	7	3.0	31	4.5	10.4	
Rowlesburg, W. Va.	36	14	1.2		0.2	5, 11	0.6	1.0	Little Rock, Ark.	176	23	12.8	8	4.5	29, 30	6.2	8.3	
Youghiogheny River.									Yazoo River.	80	25	-2.5	8	-2.8	1, 13-31	2.7	0.3	
Confluence, Pa.	59	10	-0.6	25-31	-0.8	4-23	-0.7	0.2	Yazoo City, Miss.									
West Newton, Pa.	15	23	0.0	1-31	0.0	1-31	0.0	0.0	Ouachita River.									
Monongahela River.									Camden, Ark.	304	39	4.6	14	3.2	26-31	3.8	1.4	
Weston, W. Va.	161	18	-2.2		1	-2.4	-2.3	0.2	Monroe, La.	122	40	2.0	6	0.3	31	1.0	1.7	
Fairmont, W. Va.	119	25	13.7		1.2	12.4	31	12.9	Red River.									
Greensboro, Pa.	81	18	6.3		15	5.4	20, 21	5.8	0.9	Arthur City, Tex.	688	27	6.6	27-31	5.8	1-6, 14-23	6.0	0.8
Lock No. 4, Pa.	40	28	6.9		21	5.2	10-16	5.8	1.7	Fulton, Ark.	515	28	10.3	4	5.5	30, 31	6.9	4.8
Beaver River.									Shreveport, La.	327	29	3.5	8	-0.6	31	0.8	4.1	
Ellwood Junction, Pa.	10	14	1.3		3, 11	0.9	1, 2	1.1	Alexandria, La.	118	33	2.2	13	-0.5	31	0.5	2.7	
Muskingum River.									Mississippi River.									
Zanesville, Ohio.	70	20	8.1		11	7.4	1-5, 23, 31	7.6	0.7	St. Cloud, Minn.	2,034	4	2.3	14, 20, 21	0.8	3, 4, 7	1.7	1.5
Little Kanawha River.									St. Paul, Minn.	1,954	14	7.8	27-28	3.2	1	5.8	4.6	
Glenville, W. Va.	77	20	0.0		24	-1.2	4, 16, 21	-0.9	1.2	Red Wing, Minn.	1,914	14	7.7	16, 26, 27	3.1	8	5.8	4.6
Creston, W. Va.	38	20	-0.8	1-31	-0.8	1-31	-0.8	0.0	Reeds Landing, Minn.	1,884	12	7.4	15	3.0	7	5.6	4.4	
Great Kanawha River.									L Crosse, Wis.	1,819	12	8.8	18, 19	4.0	6-9	6.6	4.8	
Charleston, W. Va.	58	80	6.8		18-31	6.0	13-16	6.4	0.8	Prairie du Chien, Wis.	1,759	18	10.5	22, 23	3.8	1	7.0	6.7
New River.									Dubuque, Iowa.	1,699	18	10.8	24	4.1	1	7.2	6.7	
Radford, Va.	155	14	-1.4	1, 2, 5, 6	-1.9	26-31	-1.7	0.5	Clinton, Iowa.	1,629	16	9.6	26, 27	3.8	1-3	6.4	5.8	
Hinton, W. Va.	95	14	0.9	1-4	0.8	5-31	0.8	0.1	Leclaire, Iowa.	1,609	10	6.5	26, 27	2.3	1-3	4.2	4.2	
Scioto River.									Davenport, Iowa.	1,593	15	8.6	27	3.8	1, 3, 4	5.7	4.8	
Columbus, Ohio.	110	17	2.6		14	2.0	1-11, 17-31	2.1	0.6	Muscatine, Iowa.	1,562	16	9.4	27, 28	4.5	3	6.5	4.9
Licking River.									Galland, Iowa.	1,472	8	4.4	29, 30	2.0	5-8	2.8	2.4	
Falmouth, Ky.	30	25	0.2	1-8, 12-15	0.0	18-31	0.1	0.2	Keokuk, Iowa.	1,463	15	7.3	29, 30	3.2	5-7	4.6	4.1	
Miami River.									Warsaw, Ill.	1,458	18	10.0	29, 30	5.9	8, 9	7.4	4.1	
Dayton, Ohio.	77	18	0.6	23-25,	0.1	16	0.5	0.5	Hannibal, Mo.	1,402	13	8.2	30, 31	4.2	7, 8	5.5	4.0	
Kentucky River.									Grafton, Ill.	1,306	23	10.5	1	7.3	15-21	8.0	3.2	
Jackson, Ky.	287	24	1.1	1, 12	0.6	21-23, 30, 31	0.8	0.5	St. Louis, Mo.	1,264	30	11.7	1	6.6	19-21	8.2	5.1	
Beattyville, Ky.	254	30	0.2	1-10	-1.7	27-31	-0.8	1.9	Chester, Ill.	1,189	30	10.7	1, 2	6.6	20-23	7.9	4.1	
High Bridge, Ky.	117	17	9.6		14	8.2	12	8.6	New Madrid, Mo.	1,003	34	10.2	4	5.5	24-26	7.2	4.7	
Frankfort, Ky.	65	31	5.9		17	3.5	10-14	4.8	2.4	Baton Rouge, La.	240	35	6.4	15, 16	3.1	30, 31	5.0	3.3
Wabash River.									Batonaueville, La.	188	28	5.0	15-17	2.6	29	4.0	2.4	
Mount Carmel, Ill.	50	15	4.1		1	0.8	26-31	1.5	3.3	New Orleans, La.	108	16	5.3	16, 17	3.3	23	4.4	2.0
Cumberland River.									Atchafalaya River.									
Burnside, Ky.	518	50	0.3	1, 2	-0.2	31	0.1	0.5	Melville, La.	103	31	10.2	16	4.8	31	8.1	5.4	
Celina, Tenn.	388	45	0.5	3, 12, 13	0.0	17-31	0.2	0.5	Mohawk River.									
Carthage, Tenn.	308	40	0.4		-0.3	1	0.0	0.7	Tribeshill, N. Y.	42	15	9.5	22	-1.9	9	0.0	11.4	
Nashville, Tenn.	193	40	6.6		18-31	1.0	1, 5-8	4.3	5.6	Schenectady, N. Y.	19	15	9.0	22	1.8	6-11	2.8	7.2
Clarksville, Tenn.	126	42	2.8		28-31	1.4	11	1.9	Hudson River.									
Powell River.									Glen Falls, N. Y.	197		11.4	23	5.6	21	7.6	5.8	
Tazewell, Tenn.	30	20	0.1	1-7	0.0	8-31	0.0	0.1	Troy, N. Y.	154	14	12.0	23	3.3	19	5.8	8.7	
Cinch River.									Albany, N. Y.	147	12	9.5	22	2.0	19	4.1	7.5	
Speers Ferry, Va.	156	20	-1.0	12, 21, 24, 28, 31	-1.3	7-9	-1.1	0.3	Pompton River.	6	8	5.7	22	4.1	1-12, 14-21	4.3	1.6	
Clinton, Tenn.	52	25	2.8		1	2.2	23-25, 31	2.4	0.6	Pasaiac River.	69	7	4.6	22	2.3	7-11	2.9	2.3
Holston River.									Chatham, N. J.	45	15	5.0	22	2.3	7-11	2.9	2.3	
Bluff City, Tenn.	170	15	0.1	1-8	-0.1	21-27	0.0	0.2	Lehigh River.	45	15	7.1	2	3.9	11	4.5	3.2	
Rogersville, Tenn.	103	14	1.2	1-7	1.0	23-31	1.1	0.2	Mauchunk, Pa.	66	12	2.5	22	0.0	3-11, 20	0.4	2.5	
French Broad River.									Schuykill River.									
Asheville, N. C.	144	6	-0.7	1	-1.9	29-31	-1.2	1.2	Reading, Pa.	66	12	2.5	22	0.0	3-11, 20	0.4	2.5	
Leadville, Tenn.	70	15	-0.2		21	-2.2	19	-1.8	Delaware River.									
Hirwassee River.									Hancock (E. Branch), N. Y.	269	12	10.3	22	3.2	8-12	4.1	7.1	
Charleston, Tenn.	18	22	0.1		1, 2	-0.3	19	-0.1	Hancock (W. Branch), N. Y.	269	10	7.9	22	3.3	8	4.2	4.6	
Tennessee River.									Jervis, N. Y. (3)	204	14	8.7	22	0.7	13	2.3	8.0	
Knoxville, Tenn.	635	29	-0.1	1, 2	-0.4	25-27	-0.3	0.3	Phillipsburg, N. J.	142	26	11.1	22	1.3	9-12	2.7	9.8	
Loudon, Tenn.	590	25	-0.2	29-31	-1.0	23-28	-0.7	0.8	Trenton, N. J.	92	18	7.1	23	1.1	11	2.2	6.0	
Kingston, Tenn.	556	25	0.7	6-8	0.3	17-21	3.8	4	North Branch Susquehanna.	183	16	7.3	22, 23	2.5	9-11	3.7	4.8	
Chattanooga, Tenn.	452	33	0.7	1, 2	0.1	21-31	0.3	0.6	Binghamton, N. Y.	139	16	5.8	23	1.0	11, 12	2.5	4.8	
Bridgeport, Ala.	402	24	0.1	3	-0.4	25-31	-0.2	0.5	Towanda, Pa.	60	17	10.2	23, 24	3.8	11	5.9	6.4	
Florence, Ala.	255	16	-0.2	1, 2	-0.9	28-31	-0.6	0.7	Wilkesbarre, Pa.									
Riverton, Ala.	225	25	-2.1	8	-3.1	24, 25, 28-31	-2.7	1.0	Lockhaven, Pa.	65	12	-2.0	1-31	-2.0	1-31	-2.0	0.0	
Johnsonville, Tenn.	95	21	-0.1	1, 2	-0.9	26-21	-0.6	0.8	Williamsport, Pa.	39	20	1.7	23	0.5	12	1.1	1.2	
Ohio River.									Juniata River.									
Pittsburg, Pa.	966	22	6.8	17	5.8	10, 20	6.3	1.0	Huntingdon, Pa.	90	24	3.2	22	2.9	1-6, 8, 12, 17	3.0	0.3	
Davis Island Dam, Pa.	960	25	4.5	26	2.6	25	3.2	1.9	Harrisburg, Pa.	69	17	5.0	25	2.1	11-13	2.9	2.9	
Beaver Dam, Pa.	925	27	5.4	27	2.9	11	3.6	2.5	Shenandoah River.									
Wheeling, W. Va.	875	36	4.9	28	2.6	14-16, 23, 26	3.2	2.3	Riverton, Va.	58	22	0.5	1-31	0.5	1-31	0.5	0.0	
Parkersburg, W. Va.	785	36	5.2	30	1.8	1	3.3	3.4	Potomac River.	40	7	6.0	22	0.0	1-20, 31	0.4	0.0	
Point Pleasant, W. Va.	703	39	2.8	31	0.7	2, 3	1.6	2.1	Roanoke River.	55	8	-0.3	1-6	-0.6	20, 31	-0.4	0.3	
Huntington, W. Va.	660	50	5.2	31	2.8	3	3.9	2.4	James River.									
Catlettsburg, Ky.	651	50	2.9	31	1.1	1-4	1.6	1.8	Buchanan, Va.	305	12	1.8	1, 24-29	1.6	3, 4	1.7	0.2	
Portsmouth, Ohio.	612	50	3.6	23	1.9	2-4	2.8	1.7	Lynchburg, Va.	260	18	0.2	21-24	-0.5	10-20	-0.2	0.7	
Maysville, W. Va.	559																	

TABLE VII.—Heights of rivers referred to zeros of gages—Continued.

Stations.	Distance to mouth of river.	Danger line on gage.	Highest water.		Lowest water.		Mean stage.	Monthly range.	Stations.	Distance to mouth of river.	Danger line on gage.	Highest water.		Lowest water.		Mean stage.	Monthly range.	
			Height.	Date.	Height.	Date.						Height.	Date.	Height.	Date.			
Pedee River.	Miles.	Feet.	Feet.		Feet.				Tombigbee River.	Miles.	Feet.	Feet.		Feet.		Feet.		
Cheraw, S. C.....	149	27	2.5	27	1.3	12, 13	1.7	1.2	Columbus, Miss.....	303	33	— 2.8	1, 2	— 3.1	29-31	— 2.9	0.3	
Smiths Mills, S. C.....	51	16	4.6	1	0.4	21	2.3	4.2	Demopolis, Ala.....	155	35	— 3.3	2-4, 10	— 3.8	28-31	— 3.6	0.5	
Lynch Creek.									Leaf River.									
Effingham, S. C.....	35	12	4.0	1-3	2.4	30, 31	3.1	1.6	Hattiesburg, Miss (6).....	60	20	2.3	15-31	2.3	15-31	2.3	0.0	
Black River.									Chickasawhay River.									
Kingtree, S. C.....	45	12	2.8	4	0.0	18-20, 28	1.3	2.8	Enterprise, Ala (5).....	144	18	0.0	15-31	0.0	15-31	0.0	0.0	
Catawba River.									Pearl River.									
Mount Holly, N. C.....	28	15	1.5	1-4, 7, 8	1.2	25, 26	1.4	0.3	Jackson, Miss (6).....	242	20	0.6	15	0.3	26-31	0.4	0.3	
Wateree River.									Logansport, La.....	195	25	1.2	1, 2	0.1	30, 31	0.7	1.1	
Camden, S. C.....	37	24	4.5	27	3.0	1, 2, 4, 18, 25	3.5	1.5	Neches River.									
Congaree River.									Rockland, Tex.....	105	20	— 0.1	1, 2	— 0.8	20, 27-31	— 0.5	0.7	
Columbia, S. C.....	52	15	— 0.3	27-31	— 3.0	4-11	— 2.0	2.7	Beaumont, Tex.....	18	10	2.2	18	0.2	22-31	— 0.2	2.3	
Santee River.									Trinity River.									
St. Stephens, S. C.....	50	12	— 1.2	1-3, 31	— 2.2	26	— 1.7	1.0	Dallas, Tex.....	320	25	12.8	28	2.1	16, 17	3.4	10.7	
Edisto River.									Riverside, Tex.....	112	40	1.6	1	— 0.7	22-31	— 0.2	2.3	
Edisto, S. C.....	75	6	1.5	30	0.8	19-24	1.0	0.7	Liberty, Tex.....	20	25	5.4	18	3.4	23	4.4	2.0	
Broad River.									Brazos River.									
Carlton, Ga.....	30	11	1.7	27, 28	1.5	1-25	1.5	0.2	Kopperl, Tex.....	345	21	9.0	26	0.4	18	2.8	8.6	
Savannah River.									Waco, Tex.....	285	24	9.6	27	2.7	17, 18	4.4	6.9	
Calhoun Falls, S. C.....	347	15	1.8	1	1.0	18-18	1.2	0.8	Hempstead, Tex.....	140	40	13.0	29	2.1	20-22	0.9	10.9	
Augusta, Ga.....	268	32	5.0	1, 31	3.7	29	4.2	1.3	Booth, Tex.....	61	39	4.0	19	2.2	26, 27, 31	2.8	1.8	
Oconee River.									Colorado River.									
Milledgeville, Ga.....	147	25	0.9	4	0.2	16, 18, 19	0.5	0.7	Ballinger, Tex.....	489	21	5.0	16	1.3	10-14	2.0	3.7	
Dublin, Ga.....	79	30	— 1.1	31	— 1.5	18, 20-26	— 1.4	0.4	Austin, Tex.....	214	18	6.5	28	1.0	16, 17	2.1	5.5	
Ocmulgee River.									Columbus, Tex.....	98	24	15.2	29	5.9	24	8.0	9.3	
Macon, Ga.....	203	18	0.2	7	— 1.0	5	— 0.2	1.2	Guanadalupe River.									
Abbeville, Ga.....	96	11	0.6	1	— 0.3	23-25	— 0.4	0.9	Gonzales, Tex (2).....	112	22	5.3	26	0.5	18, 19, 21,	1.2	4.8	
Floot River.									Red River of the North.									
Woodbury, Ga.....	227	10	— 0.2	1	— 0.5	24	— 0.4	0.3	Moorhead, Minn.....	284	26	8.3	12, 17-19,	8.0	1, 2	8.2	0.3	
Albany, Ga.....	90	20	0.0	1-3	— 0.4	20-28	— 0.2	0.4	Kootenai River.									
Bainbridge, Ga (9).....	29	22	1.9	8	1.4	22-31	1.6	0.5	Bonners Ferry, Idaho.....	123	24	1.6	1	0.0	28-31	0.6	1.6	
Chattahoochee River.									Pend d'Oreille River.									
West Point, Ga.....	239	20	1.2	{ 1-4, 7, 8,	{ 21, 28	0.9	23-26	1.1	0.3	Newport, Wash.....	86	14	— 0.8	1-7	— 1.4	28-31	— 1.1	0.6
Eufaula, Ala.....	90	40	0.0	1	— 0.6	15-17	0.4	0.6	Lewiston, Idaho.....	144	24	2.2	17, 18	1.5	5	2.0	0.7	
Alaga, Ala (7).....	30	25	0.6	20	— 0.3	18, 19, 26	0.0	0.9	Riparia, Wash.....	67	30	2.4	13-31	2.0	1-4	2.3	0.4	
Coosa River.									Columbia River.									
Rome, Ga.....	271	30	— 0.3	1, 2	— 0.9	26-31	— 0.7	0.6	Wenatchee, Wash.....	473	40	6.8	1, 2	5.5	31	6.3	1.3	
Gadsden, Ala.....	144	22	— 1.0	1-5, 7-10	— 1.2	20-31	— 1.1	0.2	Umatilla, Oreg.....	270	25	2.1	1	— 0.1	30, 31	0.8	2.2	
Lock No. 4, Ala.....	116	17	— 0.7	1-13	— 1.0	27-31	— 0.8	0.3	The Dalles, Oreg.....	166	40	3.9	1, 2	1.6	31	2.7	2.3	
Wetumpka, Ala.....	6	45	0.1	1	— 0.5	29, 31	— 0.2	0.6	Willamette River.									
Tallapoosa River.									Albany, Oreg.....	118	20	2.2	18	0.9	1-10, 29-31	1.2	1.3	
Milstead, Ala.....	38	35	1.2	10	0.1	12, 24	0.5	1.1	Salem, Oreg.....	84	20	1.3	18	0.2	4-10	0.5	1.1	
Alabama River.									Portland, Oreg.....	12	15	4.3	16	0.7	18	2.2	3.6	
Montgomery, Ala.....	265	35	— 1.3	1	— 1.9	23-25, 27-31	— 1.8	0.6	Sacramento River.									
Selma, Ala.....	212	35	— 1.3	1	— 1.8	9-31	— 1.7	0.5	Red Bluff, Cal.....	201	23	17.4	11	0.4	1, 2	4.2	17.0	
Black Warrior River.									Sacramento, Cal.....	64	25	18.0	12	3.2	6-8	11.7	8.8	
Tuscaloosa, Ala.....	90	43	4.4	1, 5, 6	4.0	30, 31	4.2	0.4										

(1) 23 days only.

(2) 22 days only.

(3) 19 days only.

(4) 12 days only.

(5) 17 days only.

(6) 24 days only.

(7) 14 days only.

(8) 15 days only.

## HAWAIIAN CLIMATOLOGICAL DATA.

By ALEXANDER McC. ASHLEY, Section Director, United States Weather Bureau,

## GENERAL SUMMARY FOR OCTOBER, 1904.

Following is the summary of meteorological conditions in the Hawaiian Islands during October, 1904:

Approximate percentages of district rainfall as compared with normals: Hawaii, Hilo, 28 per cent; Hamakua, 22 per cent; Kohala, 42.5 per cent; Kona, 105.5 per cent; Kau, 81.7 per cent; Maui, Paia, 100 per cent; Wailuku, 106 per cent; Kauai, 97.2 per cent; Oahu, Honolulu district, 74.2 per cent; Koolau, 52 per cent.

The greatest monthly rainfall reported was 14.65 inches at Nahiku, Maui. The greatest 24-hour rainfall was 3.63 inches at Nahiku, Maui, on the 26th.

United States Weather Bureau, dew-point, 66°; relative humidity, 69 per cent. United States Magnetic Station, dew-point, 67°; relative humidity, 71 per cent.

Hawaii.—Kohala reports earthquake shocks on the 14th and 23d. Puueo reports earthquake shock on the 14th.

Oahu.—United States Weather Bureau, United States Experiment Station, Punahoa, Waiauwa, and Ahuimanu report earthquake shocks on the 14th. United States Magnetic Station reports lunar rainbow on the 25th.

## Temperature table for October, 1904.

Stations.	Elevation.	Mean max.	Mean min.	Cor. av'ge.	High-est.	Low-est.
Olaa Mill	Feet.	°	°	°	°	°
Volcano House	4,000	83.0	61.0	72.0	87	59
Kohala	521	80.0	66.0	73.0	82	66
Niuli	200	83	72	78	86	69
Ookala	400	68				66
Pepeekeo	100	81.0	70.0	76.0	84	69
United States Weather Bureau	121	82.0	72.0	77.0	84	68
United States Magnetic Station	50	87.0	69.0	78.0	89	65
United States Experiment Station	350	85.0	72.0	78.0	89	69
Punahoa	47	82.0	72.0	77.0	85	66
Kahuku	25	84.0	74.0	79.0	86	72
Kilauea	342	82.0	69.0	75.0	86	64
Lihue	200	85.0	69.0	77.0	88	61
Koloa	241	80.0	69.0	75.0	83	63
Wailuku	250	85.0	69.0	77.0	88	63
Kipahulu	308	82.0	70.0	76.0	84	67
Kailua (Huuelo)	285	83.0	67.0	75.0	91	62
Nahiku	1,600	78.0	66.0	72.0	88	61
Waiauwa	900	79.0	61.0	70.0	83	57
Keomuku	10	81.0	67.0	74.0	86	62
Hilo	50					
Waimea	2,730					
Kinau Street (Castle)	50					
Ewa Mill	60					

Maui.—Kipahulu reports lightning on the 1st and 2d, and two slight earthquake shocks on the 14th.

Kahoolawe (northwest coast) reports a dust storm on the 29th.